#### GROUNDWATER TREATMENT SYSTEM QUARTERLY MONITORING REPORT THIRD QUARTER 2002

## AMERICAN CHEMICAL SERVICE NPL SITE GRIFFITH, INDIANA

MWH File No. 2090601

#### **Prepared For:**

American Chemical Service NPL Site RD/RA Executive Committee Griffith, Indiana

Prepared By:

MWH 27755 Diehl Road, Suite 300 Warrenville, Illinois 60555

February 2003





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Prepared by:	Trais Klingforth	2/28/03
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#### 1.0 INTRODUCTION

MWH, on behalf of the ACS RD/RA Executive Committee, started up the on-site groundwater treatment system at the American Chemical Service NPL Site (ACS Site) in Griffith, Indiana on March 13, 1997. The groundwater treatment plant (GWTP) system was designed to treat groundwater from the Perimeter Groundwater Containment System (PGCS) and the Barrier Wall Extraction System (BWES). The original treatment consisted of a phase-separator for oil and free product removal, equalization tanks, a UV oxidation unit for destruction of organic constituents, and an air stripper to remove methylene chloride and other organics. The treatment also included a chemical precipitation and clarification unit to remove metals, a sand filter to remove suspended solids, and activated carbon vessels for final polishing of the treated groundwater.

In 2001, an activated sludge treatment unit was added to the process to reduce the volatile and semivolatile organic compounds (VOCs and SVOCs) in the collected groundwater. The activated sludge treatment process also reduces the amount of activated carbon required to treat the water. An aerated equalization tank was also added to the GWTP in 2001 to remove VOCs from the collected groundwater, oxidize metals to increase metals removal efficiency in the chemical precipitation unit, and equalize groundwater flow through the GWTP. The activated sludge system and aeration tank have been fully integrated into the process along with the other upgrade components. Startup and optimization of the catalytic oxidizer/scrubber air treatment unit was also conducted during 2001.

MWH began eight initial rounds of off-gas sampling of the catalytic oxidizer/scrubber described in the PSVP during April 2002. Sampling rounds four through eight were conducted during the third quarter 2002. In addition, two more off-gas samples were collected in August and September 2002.

The treated effluent from the treatment system is discharged to the nearby wetlands, west of the treatment system, in accordance with Agency approvals. This Groundwater Treatment System report summarizes effluent analytical data, catalytic oxidizer/scrubber off-gas analytical data, and water level gauging data collected from July 2002 through September 2002. This report also details modifications or upgrades to the GWTP during the reporting period.

#### 2.0 COMPLIANCE MONITORING

#### 2.1 INTRODUCTION

Effluent samples are collected on a regular schedule from the treatment system to demonstrate compliance with the discharge limits (Table 2.1) established by Indiana Department of Environmental Management (IDEM) and United States Environmental Protection Agency (U.S. EPA). The approved Performance Standard Verification Plan (PSVP) requires quarterly effluent sampling for biological oxygen demand (BOD), total suspended solids (TSS), pH, SVOCs, metals, and polychlorinated biphenyls (PCBs) in the system, and monthly effluent sampling for VOCs, as shown in the table below.

During the past several years as the water treatment system has been modified and optimized, MWH has conducted sampling and analysis of all discharge regulated compounds on a monthly basis to maintain a closer documentation of system performance. The water treatment components are now functioning efficiently and showing stability in operation. Therefore, on June 5, 2002, MWH distributed a memorandum to the Agencies recommending that the sampling frequency be reduced to a monthly timeframe for volatile organic compounds (VOCs) and pH, and a quarterly timeframe for all other analytes, as specified in the PSVP. The Agencies agreed and in accordance with this plan, a full monthly effluent compliance sample was collected during July and analyzed for all of the analytes listed above. During August and September, the monthly effluent compliance samples were analyzed for VOCs and pH only.

Sampling and analyses were performed in accordance with the Quality Assurance Project Plan (QAPP) prepared by MWH for the ACS RD/RA Executive Committee in March 2001 and approved by the Agencies in November 2001. Quality control measures were also instituted in accordance with the PSVP and QAPP. The following table and paragraphs present details on sampling and analyses, and also summarize the analytical data for the treatment system effluent.

Sampling Frequency Schedule – Groundwater Treatment System

Analytes	Cumulative Time From Startup*	Frequency
Flowrate and pH	_	Continuous
BOD, TSS, SVOCs and Metals	181 days onward	Once per quarter
VOCs	31 days onward	Once per month
PCBs	181 days onward	Once per quarter
PCBs in Sediment (one location)		Once per year

\*Note: System was started up on March 13, 1997

#### 2.2 EFFLUENT SAMPLING AND ANALYSES

Effluent samples were collected each month during the third quarter 2002. Samples were collected on the following dates and analyzed for the listed analytes for this reporting period:

August 8, 2002 full analysis (pH, TSS, BOD, Metals, VOCs, SVOCs,

pentachlorophenol, and PCBs)

August 29, 2002 pH and VOCs September 26, 2002 pH and VOCs

The August 8, 2002 sample was originally collected on July 30, 2002, however it arrived at the laboratory above the holding temperature prescribed in the QAPP due to a shipping delay. Therefore, it was resampled on August 8, 2002.

The above samples were collected directly from a sample tap on the effluent line of the treatment system. The samples were placed in contaminant-free containers, in accordance with the U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers (U.S. EPA, 1992). Appropriate sample containers and preservatives, as specified in the QAPP, were used to collect and preserve the samples. Following sample collection, the sample containers were refrigerated at or below 4° C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories. In accordance with the approved QAPP, the effluent water samples were analyzed for the following parameters by the following analytical methods:

**Parameter** Analytical Method **VOCs** SW-846 8260B **SVOCs** SW-846 8270C Pentachlorophenol SW-846 8270C and SIM EPA 608/SW-846 8081/8082 Pesticides/PCBs Metals (Excluding Mercury) SW-846 6010 General Water Quality EPA 160.2 and 405.1 Parameters (TSS and BOD-5) Mercury SW-846 7470 EPA 150.1 pΗ

#### 2.3 EFFLUENT ANALYTICAL RESULTS

The GWTP effluent monitoring data, summarized in Table 2.2, verify that the system effluent was compliant with the discharge limits presented in Table 2.1 throughout the quarter. No exceedences were reported. The analytical data sheets for the compliance samples are provided in Appendix A.

Compuchem Laboratory of Cary, North Carolina performed the analysis of the samples. Laboratory Data Consultants (LDC) of Carlsbad, California performed third party data validation in accordance with the U.S. EPA National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in Table 2.2 and are written in the margin of the analytical data sheets provided in Appendix A.

#### 2.4 CATALYTIC OXIDIZER/SCRUBBER OFF-GAS SAMPLING AND RESULTS

#### **Off-Gas Sampling**

Influent and effluent off-gas samples were collected from the catalytic oxidizer/scrubber unit (ME-106) in the GWTP six times during the third quarter 2002. These samples consisted of the final four of eight initial rounds planned for the catalytic oxidizer/scrubber unit and two additional rounds, Rounds 9 and 10. Samples collected during Rounds 1 through 8 were collected to comply with the PSVP and QAPP. Rounds 9 and 10 were performed to collect data for additional verification. Samples were collected on the following dates:

- July 2, 2002 (Round 5)
- July 12, 2002 (Round 6)
- July 18, 2002 (Round 7)
- July 25, 2002 (Round 8)
- August 8, 2002 (Round 9)
- September 30, 2002 (Round 10) VOCs only

In accordance with the procedures of the PSVP, eight initial rounds of off-gas compliance sampling were collected from the catalytic oxidizer from April to July 2002. The catalytic oxidizer unit was sampled again in August and September 2002 (Rounds 9 and 10) while MWH evaluated the future catalytic oxidizer sampling frequency needs based on data from the initial eight rounds.

The sample collected on September 30, 2002 could only be analyzed for VOCs due to a laboratory handling error that left the sample above the hold temperature prescribed in the QAPP for the other compounds.

The samples were collected directly from a sample tap on the influent and effluent lines of the catalytic oxidizer/scrubber. One influent sample (labeled IN1) and one effluent sample (EF1) were collected. A duplicate influent sample (IN2) was also collected. The samples were collected to comply with the PSVP and QAPP and in accordance with the QAPP and laboratory guidelines. The VOC sample was collected using a summa canister and the SVOC sample was collected in sorbent tubes.

Following sample collection, the SVOC sample containers were refrigerated at or below 4°C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories for extraction and analysis. In accordance with the approved QAPP, the off-gas samples were analyzed for the following parameters by the following analytical methods:

<u>Parameter</u>	Analytical Method
VOCs	TO-14
SVOCs	TO-13

#### **Sampling Results**

The influent and effluent off-gas data summarized in Tables 2.3 and 2.4, verify that the off-gas from the catalytic oxidizer was less than the IDEM discharge limit of three pounds per hour VOC discharge throughout the quarter. For example, the VOC discharge reported from the July 2, 2002 sample was 0.009 pounds per hour, approximately 0.3 percent of the discharge limit. The analytical data sheets for the compliance samples are provided in Appendix B.

As the data from rounds one through eight indicate, the catalytic oxidizer is operating within it's permitted requirement of discharging less than three pounds of VOCs per day. The data from rounds 9 and 10 provide further verification. Therefore, the catalytic oxidizer will be sampled annually, in accordance with the PSVP and the applicable IDEM regulations. The next sample is tentatively scheduled to be collected during June 2003.

Air Toxics Laboratories of Folsom, California analyzed the samples. The analytical results are summarized in Tables 2.3 and 2.4. MWH performed data validation in accordance with the QAPP and the National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in Tables 2.3 and 2.4 and are written in the margin of the analytical data sheets provided in Appendix B.

#### 3.0 TREATMENT SYSTEM PROCESS MODIFICATIONS

During the third quarter of 2002, minor modifications were made in the GWTP treatment system process. During July 2002, temporary piping was installed to distribute treated effluent from the GWTP to the On-Site Area and Off-Site Area for use in dust control during cover installation.

During August 2002, piping was installed in preparation for a heat exchanger pump system to be installed in Tank T-2. The heat exchanger pump system will receive heated water from the in-situ soil vapor extraction system thermal oxidizer/scrubber. The selected heat exchanger will be manufactured by Omega Thermo Products and is scheduled to be installed in November 2002. A copy of the as-built fabrication drawing of the heat exchanger is included in Appendix C. Also, the activated sludge plant and aeration tank were insulated during August 2002. The insulation consists of three inches of R20 urethane foam that was installed by Momper Insulation. The insulation and heat exchanger system were designed to improve the treatment efficiency of the activated sludge plant and aeration tank during the winter months.

#### 4.0 PGCS AND BWES GAUGING ACTIVITIES

The Perimeter Groundwater Containment System (PGCS) trench groundwater extraction wells were operated in "auto" mode continuously throughout the third quarter 2002. In "auto" mode, the PGCS extraction wells will pump continuously unless there is a high water level in Aeration Equalization Tank (T-102) or a low water level in individual extraction wells. This mode is used to control the flowrate through the treatment system. The GWTP also received influent from the Barrier Wall Extraction System (BWES) during the third quarter 2002.

In accordance with the PSVP for the Site, a discussion on the effect of the PGCS and BWES on the water table near the Site is presented in each quarterly monitoring report. This section presents a discussion on the groundwater elevation findings during the months of July, August, and September 2002. Groundwater elevation measurements were collected throughout the Site on September 9, 2002 as part of the groundwater monitoring program. The groundwater elevations and resulting contours outside the barrier wall are shown in Table 4.1 and on Figure 4.1. The water table contours shown on Figure 4.1 indicate that the PGCS continues to create a trough in the water table, which acts to contain groundwater flowing around the northern edge of the barrier wall.

The barrier wall was constructed to contain a contaminated zone under the Site, and the BWES was installed to collect the impacted water within the barrier wall. Piezometers were installed in pairs, one piezometer of each pair on either side of the barrier wall, spaced around the site. This allows measurement and tracking of water levels in order to ensure that the barrier wall is serving its designed function.

Table 4.2 presents the groundwater elevations inside and outside the barrier wall on September 9, 2002. They are illustrated on Figure 4.2. The groundwater elevation measurements were generally 1.57 feet to 7.08 feet higher outside the barrier wall. Only at two barrier wall pairs, P107/P108 and P114/P115, were the elevations higher inside the wall.

At On-Site Area piezometers P107 and P108 the water level was 1.57 feet higher inside the wall. This is due in part to the current focused dewatering of the Off-Site Area to allow for operation of the ISVE systems in the Off-Site Containment Area and Kapica-Pazmey Area, and due to seasonally low elevations outside the barrier wall. Also, there is no extraction trench near this area.

At Off-Site Area piezometers P114 and P115 the water level was 0.87 feet higher inside the wall. As MWH has actively dewatered the Site, especially the Off-Site Area, water table elevations at P114 have been steadily decreasing. The water level data measured outside the barrier wall during September were seasonally low. This is likely a temporary situation, as the water level measurement during March 2002 was several feet higher outside the barrier wall.

The data demonstrate that the barrier wall is successfully performing the intended function of isolating and protecting the groundwater from the known source areas of the Site inside the barrier wall. Due largely to the seasonally low groundwater levels outside the barrier wall, a few points showed outward gradients. However, MWH believes this is only a temporary situation, especially considering the consistently decreasing levels inside the barrier wall. MWH will continue to collect regular water level measurements across the Site as described in the PSVP.

To keep track of the groundwater table inside the barrier wall, water levels were collected from the various piezometers and air sparge (AS) wells on a regular basis, as shown in Table 4.3. Water levels were measured at seven piezometers in the On-Site Area regularly throughout the quarter (P29, P31, P32, P36, P49, P106, and P108). Water levels were measured at seven piezometers in the Off-Site Area (P96, P110, P112, P113, P114, P116, P118, AS-7, AS-8, and AS-9). The water level data from these piezometers are depicted graphically on Figures 4.3 and 4.4. The target water levels in each area are shown on these figures for reference. As part of the optimization of the GWTP and BWES upgrades, MWH began active dewatering of the Off-Site Area through increased groundwater pumping rates on September 25, 2001. The water levels inside the barrier wall are being lowered for proper operation of the in-situ soil vapor extraction (ISVE) systems.

TMK/CAS/JDP/RAA/PJV/jmf J:\209\0603 AC\$\0301 GWTP\6030301a022.doc 2090603.030102



#### Table 2.1 **Groundwater Treatment System Effluent Discharge Limits** American Chemical Service NPL Site Griffith, Indiana

Groundwater Quality Parameter	Effluent Standard (Limit)				
General Water Quality Parameters					
PH	6 - 9 S.U				
BOD-5	30 mg/L				
TSS	30 mg/L				
Inorganics					
Arsenic	50 μg/L				
Beryllium	NE				
Cadmium	4.1 μg/L				
Manganese	NE.				
Mercury	$0.02 \mu g/L (w/DL = 0.64)$				
Selenium	8.2 μg/L				
Thallium	NE NE				
Zinc	411 µg/L				
Volatile Organics					
Acetone	6.800 μg/L				
Benzene	5 μg/L				
2-Butanone	210 μg/L				
Chloromethane	NE				
1,4 – Dichlorobenzene	NE				
1,1 - Dichloroethane	NE				
1,2 - Dichloroethene - cis	70 μg/L				
Ethylbenzene	34 μg/L				
Methylene chloride	5 μg/L				
Tetrachloroethene	5 μg/L				
Trichloroethene	5 μg/L				
Vinyl chloride	2 μg/L				
4 - Methyl - 2 - pentanone	15 μg/L				
Semi-Volatile Organics					
bis(2 - Chloroethyl) ether	9.6 μg/L				
bis(2 - Ethylhexyl) phthalate	6 μg/l.				
Isophorone	50 μg/L				
4 - Methylphenol	34 µg/L				
Pentachlorophenol	Ι με/L				
PCBs					
PCBs	$0.00056  \mu g/L  (w/DL = 0.1  to  0.9)$				

NE = No effluent limit established.

DL = Detection limit

#### Table 2.2

#### Summary of Effluent Analytical Results - Third Quarter 2002 Groundwater Treatment System American Chemical Service NPL Site Griffith, Indiana

Event Date	Month 62 8/8/02 <sup>1</sup>	Month 63 8/29/02	Month 64 9/26/02	Effluent Limits	Lab Reporting
pН	7.51 / Ĵ	7.39	7 40	6-9	none
TSS	ND	NS	NS	30	10
BOD	ND	NS	NS	30	2
Arsenic	3.2 B/	NS	NS	50	3.4
Beryllium	ND	NS	NS	NE	0.2
Cadmium	ND	NS	NS	4.1	0.3
Manganese	5.8 B/	NS	NS	NE	10
Mercury	ND	NS	NS	0.02 (w/DL = 0.64)	0.64
Selenium	ND	NS	NS	8.2	4.3
Thallium	ND	NS	NS	NE	5.7
Zinc	ND	NS	NS	411	1.2
Benzene	ND	ND	ND	5	0.5
Acetone	2 JB/UBJ	3 B/UB	2 JB/3 UBJ	6,800	3
2-Butanone	ND /UJ	ND	ND	210	3
Chloromethane	ND	0.4 J/	NĐ	NE	0.5
1,4-Dichlorobenzene	ND	ND	ND	NE	0.5
1,1-Dichloroethane	ND	ND	ND	NE	0.5
cis-1,2-Dichloroethene	ND	ND	ND	70	0.5
Ethylbenzene	ND	ND	ND	34	0.5
Methylene chloride	2	2 B/UBJ	2 B/UBJ	5	0.6
Tetrachloroethene	ND	ND	0.09 J/	5	0.5
Trichloroethene	ND	ND	0.1 J/J	5	0.5
Vinyl chloride	ND	ND	ND	2	0.5
4-Methyl-2-pentanone	ND /UJ	ND	ND	15	3
bis (2-Chloroethyl) ether	ND	NS	NS	9.6	9.6
bis(2-Ethylhexyl) - phthalate	0.76 J/	NS _	NS	6	6
4 - Methylphenol	ND	NS	NS	34	10
Isophorone	ND	NS	NS	50	10
Pentachlorophenol	ND	NS	NS	1	1
PCB/Aroclor-1016	ND	NS	NS	0.00056 (w/DL = $0.1$ to $0.9$ )	0.5
PCB/Aroclor-1221	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.92*
PCB/Aroclor-1232	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1242	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1248	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1254	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1260	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5

#### Notes:

1 The July 30, 2002 sample could not be analyzed due because it arrived warm to the laboratory due to a shipping delay. It was resampled on August 8, 2002.

Data has been validated in accordance with the Project QAPP (November 2001) and the U S  $\,$  EPA

National Functional Guidelines for Organic Data Review

Shaded cells indicate discharge exceedances

pH data is expressed in S U

TSS and BOD5 data is expressed in mg/L

Metals, VOC, SVOC and PCB data is expressed in ug/L

ND = Not detected

NS = This analyte was not sampled or analyzed for

NE = No effluent limit established.

NA = Sample not analyzed for this compound

DL = Detection Limit

\* = Approved SW-846 method is incapable of achieving effluent limit

#### Suffix Definitions

- \_/ = Data qualifier added by laboratory
- /\_ = Data qualifier added by data validator
- B = Compound is also detected in the blank
- J = Result is detected below the reporting limit and is an estimated concentration concentration and the compound is also detected in the method blank resulting in a potential high bias
- U = Analyte is not detected at or above the indicated concentration
- UB = Analyte is not detected at or above the indicated concentration due to blank contamination
- UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value

Table 2.3
Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Third Quarter 2002
American Chemical Service
Griffith, Indiana

	Round 5 - Sampled 7/2/02							
		Analytical Dat	в.	Destruction Efficiency				
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average	
Method TO-14								
Chloromethane	ppbv	ND	ND	67	NC	NC	NC	
Vinyl Chloride	ppbv	2,200	2,700	160	92.73%	94.07%	93.40%	
Bromomethane	ppbv	ND	ND	ND	NC	NC	NC	
Chloroethane	ppbv	1,200	1,400	85	92.92%	93.93%	93.42%	
1,1-Dichloroethene	ppbv	14 J/J	16 J/J	10	NC	NC	NC	
Methylene Chloride	ppbv	290	440	50	82.76%	88.64%	85.70%	
1,1-Dichloroethane	ppbv	340	510	20	94.12%	96.08%	95.10%	
cis-1,2-Dichloroethene	ppbv	3,900	5,000	320	91.79%	93.60%	92.70%	
Chlororform	ppbv	5.6 J/J	7.0 J/J	0.64 J/J	NC	NC	NC	
1,1,1-Trichloroethane	ppbv	160	240	5.7	96.44%	97.63%	97.03%	
Carbon Tetrachloride	ppbv	ND	ND	ND	NC	NC	NC	
Benzene	ppbv	7,000	9,300	690	90.14%	92.58%	91.36%	
1,2-Dichloroethane	ppbv	ND	ND	ND	NC	NC	NC	
Trichloroethene	ppbv	32	51	2.4 J/J	NC	NC	NC	
1,2-Dichloropropane	ppbv	40	42	2.2 J/J	NC	NC	NC	
cis-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
Toluene	ppbv	4,100	5,400	310	92.44%	94.26%	93.35%	
trans-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
1,1,2-Trichloroethane	ppbv	7.1 J/J	8.1 J/J	0.93 J/J	NC	NC	NC	
Tetrachloroethene	ppbv	16 J/J	23 J/J	1.8 J/J	NC	NC	NC	
Chlorobenzene	ppbv	240	330	21	91.25%	93.64%	92.44%	
Ethylbenzene	ppbv	700	960	28	96.00%	97.08%	96.54%	
m,p-Xylene	ppbv	3,400	5,000	160	95.29%	96.80%	96.05%	
o-Xylene	ppbv	1,100	1,400	54	95.09%	96.14%	95.62%	
Styrene	ppbv	36	ND	15	NC	58.33%	NC	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND	0.74 J/J	NC	NC	NC	
Acetone	ppbv	500	380	72	85.60%	81.05%	83.33%	
Carbon Disulfide	ppbv	ND	ND	2.4 J/J	NC	NC	NC	
trans-1,2-Dichloroethene	ppbv	ND	ND	15	NC	NC	NC	
2-Butanone (MEK)	ppbv	32 J/J	31 J/J	30	NC	NC	NC	
Bromodichloromethane	ppbv	ND	ND	ND	NC	NC	NC	
4-Methyl-2-pentanone	ppbv	200	150	10 J/J	NC	NC	NC	
2-Hexanone	ppbv	ND	ND	ND	NC	NC	NC	
Dibromochloromethane	ppbv	ND	ND	ND	NC	NC	NC	
Bromoform	ppbv	ND	ND	ND	NC	NC	NC	
Total	ppbv	25,438	33,303	2,113	91.69%	93.66%	92.68%	
Total	lb/hr	0.115	0.152	0.009	NC	NC	NC	
IDEM Discharge Requirement	lb/hr	0.115	0.132	3	NA NA	NA NA	NA NA	

\_/ - Laboratory data qualifier

/\_ - Data validation qualifier

NC - Not calculated

ND - Non-detect

ppby - parts per billion volume

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Total VOCs in lb/hr calculation based on air flow rate of V = 330 acfm Estimated values are not used to calculate total ppbv.

#### Qualifiers:

Table 2.3
Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Third Quarter 2002
American Chemical Service
Griffith, Indiana

		Round 6 - Sampled 7/12/02									
			Analytical Dat		Destruction Efficiency						
Compounds	Units			Effluent EF1	Low	High	Average				
Method TO-14							•				
Chloromethane	ppbv	1.9	2.3	1.4	26.32%	39.13%	32.72%				
Vinyl Chloride	ppbv	63	23	4.2	81.74%	93.33%	87.54%				
Bromomethane	ppbv	ND	ND	ND	NC	NC	NC				
Chloroethane	ppbv	44	16	2.6	83.75%	94.09%	88.92%				
1,1-Dichloroethene	ppbv	1.1 J/J	ND	1.4	NC	NC	NC				
Methylene Chloride	ppbv	170	92	19	79.35%	88.82%	84.09%				
1,1-Dichloroethane	ppbv	37	15	1.5	90.00%	95.95%	92.97%				
cis-1,2-Dichloroethene	ppbv	220	100	14	86.00%	93.64%	89.82%				
Chlororform	ppbv	3.1	1.5	0.39 J/J	NC	NC	NC				
1.1,1-Trichloroethane	ppbv	28	8.8	0.88	90.00%	96.86%	93.43%				
Carbon Tetrachloride	ppbv	ND	ND	ND	NC	NC	NC				
Benzene	ppbv	180	66	20	69.70%	88.89%	79.29%				
1,2-Dichloroethane	ppbv	6.5	4.2	ND	100.00%	100.00%	100.00%				
Trichloroethene	ppbv	5.3	2.1	ND	100.00%	100.00%	100.00%				
1,2-Dichloropropane	ppbv	2.5	1.2 J/J	ND	NC	100.00%	NC				
cis-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC				
Toluene	ppbv	160	68	11	83.82%	93.13%	88.47%				
trans-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC				
1,1,2-Trichloroethane	ppbv	1.2 J/J	0.97 J/J	ND	NC	NC	NC				
Tetrachloroethene	ppbv	1.4 J/J	ND	ND	NC	NC	NC				
Chlorobenzene	ppbv	12	5.8	1.4	75.86%	88.33%	82.10%				
Ethylbenzene	ppbv	43	17	2.2	87.06%	94.88%	90.97%				
m,p-Xylene	ppbv	140	61	8.4	86.23%	94.00%	90.11%				
o-Xylene	ppbv	56	22	2.5	88.64%	95.54%	92.09%				
Styrene	ppbv	ND	ND	0.68 J/J	NC	NC	NC				
1,1,2,2-Tetrachloroethane	ppbv	1.6 J/J	1.3	ND	NC	100.00%	NC				
Acetone	ppbv	520	440	40	90.91%	92.31%	91.61%				
Carbon Disulfide	ppbv	8.3	2.1 J/J	4.5	NC	45.78%	NC				
trans-1,2-Dichloroethene	ppbv	ND	ND	1.0 J/J	NC	NC	NC				
2-Butanone (MEK)	ppbv	210	94	17	81.91%	91.90%	86.91%				
Bromodichloromethane	ppbv	ND	ND	ND	NC	NC	NC				
4-Methyl-2-pentanone	ppbv	150	98	2.2 J/J	NC	NC	NC				
2-Hexanone	ppbv	ND	ND	ND	NC	NC	NC				
Dibromochloromethane	ppbv	ND	ND	ND	NC	NC	NC				
Bromoform	ppbv	ND	ND	ND	NC	NC	NC				
	T										
Total	ppbv	2,061	1,138	152	86.64%	92.62%	89.63%				
Total	lb/hr	0.009	0.005	0.001	NC	NC	NC				
IDEM Discharge Requirement	lb/hr			3	NA	NA	NA				

√ - Laboratory data qualifier

/\_ - Data validation qualifier

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

Destruction efficiency is not calculated where influent and/or effluent

values are estimated.

Total VOCs in lb/hr calculation based on air flow rate of V = 330 acfm

Estimated values are not used to calculate total ppbv

#### Qualifiers:

Table 2.3
Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Third Quarter 2002
American Chemical Service
Griffith, Indiana

		Round 7 - Sampled 7/18/02								
			Analytical Data	a	Destruction Efficiency					
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average			
Method TO-14										
Chloromethane	ppbv	ND	ND	36	NC	NC	NC			
Vinyl Chloride	ppbv	940	590	130	77.97%	86.17%	82.07%			
Bromomethane	ppbv	ND	ND	ND	NC	NC	NC			
Chloroethane	ppbv	600	380	53	86.05%	91.17%	88.61%			
1.1-Dichloroethene	ppbv	7.3 J/J	ND	15	NC	NC	NC			
Methylene Chloride	ppbv	1,200	1,000	170	83.00%	85.83%	84.42%			
1,1-Dichloroethane	ppbv	470	340	39	88.53%	91.70%	90.12%			
cis-1,2-Dichloroethene	ppbv	6,600	5,100	600	88.24%	90.91%	89.57%			
Chlororform	ppbv	7.4 J/J	5.7 J/J	1.1 J/J	NC	NC	NC			
1,1,1-Trichloroethane	ppbv	011	68	7.4	89.12%	93.27%	91.20%			
Carbon Tetrachloride	ppbv	ND	ND	ND	NC	NC	NC			
Benzene	ppbv	3,400	2.000	440	78.00%	87.06%	82.53%			
1,2-Dichloroethane	ppbv	98	71	6.2	91.27%	93.67%	92.47%			
Trichloroethene	ppbv	40	24 J/J	4.8	NC	88.00%	NC			
1,2-Dichloropropane	ppbv	64	50	4.4	91.20%	93.13%	92.16%			
cis-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC			
Toluene	ppbv	3,000	1,900	250	86.84%	91.67%	89.25%			
trans-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC			
1.1.2-Trichloroethane	ppby	7.6 J/J	6.8 J/J	0.86 J/J	NC	NC	NC			
Tetrachloroethene	ppbv	14 J/J	7.4 J/J	3.0	NC	NC	NC			
Chlorobenzene	ppbv	220	140	33	76.43%	85.00%	80.71%			
Ethylbenzene	ppbv	780	500	47	90.60%	93.97%	92.29%			
m,p-Xylene	ppbv	4.200	2,800	220	92.14%	94.76%	93.45%			
o-Xylene	ppbv	1,500	1.100	82	92.55%	94.53%	93.54%			
Styrene	ppbv	ND	ND	22	NC	NC	NC			
1,1,2,2-Tetrachloroethane	ppbv	ND	ND	0.65 J/J	NC	NC	NC			
Acetone	ppbv	490	520	52	89.39%	90.00%	89.70%			
Carbon Disulfide	ppbv	ND	ND	2.8 J/J	NC	NC	NC			
trans-1,2-Dichloroethene	ppbv	34 J/J	20 J/J	68	NC	NC	NC			
2-Butanone (MEK)	ppbv	160	160	8.8 J/J	NC	NC	NC			
Bromodichloromethane	ppbv	ND	ND	ND	NC	NC	NC			
4-Methyl-2-pentanone	ppbv	260	270	9.5 J/J	NC	NC	NC			
2-Hexanone	ppbv	ND	ND	ND	NC	NC	NC			
Dibromochloromethane	ppbv	ND	ND	ND	NC	NC	NC			
Bromoform	ppbv	ND	ND	ND	NC	NC	NC			
	T''					•				
Total	ppbv	24,132	16,989	2,283	86.56%	90.54%	88.55%			
Total	lb/hr	0.098	0.069	0.009	NC	NC	NC			
IDEM Discharge Requirement	lb/hr			3	NA	NA	NA			

\_/ - Laboratory data qualifier

/\_ - Data validation qualifier

NC - Not calculated

ND - Non-detect ppbv - parts per billion volume

Destruction efficiency is not calculated where influent and/or effluent

values are estimated.

Total VOCs in lb/hr calculation based on air flow rate of V = 330 acfm

Estimated values are not used to calculate total ppbv.

#### Qualifiers:

Table 2.3 Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Third Quarter 2002 American Chemical Service Griffith, Indiana

· - <del>-</del>	Round 8 - Sampled 7/25/02							
		Analytical Dat	a	Destruction Efficiency				
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average	
Method TO-14			<del></del>					
Chloromethane	ppbv	ND	ND	150	NC	NC	NC	
Vinyl Chloride	ppby	3,600	5,300	450	87.50%	91.51%	89.50%	
Bromomethane	ppbv	ND	ND	ND	NC	NC	NC	
Chloroethane	ppbv	1,600	2,300	220	86.25%	90.43%	88.34%	
1,1-Dichloroethene	ppbv	19 ]/J	27 J/J	38	NC	NC	NC	
Methylene Chloride	ppbv	1,100	1,600	280	74.55%	82.50%	78.52%	
1,1-Dichloroethane	ppbv	550	820	73	86.73%	91.10%	88.91%	
cis-1,2-Dichloroethene	ppbv	6,800	9,900	1,200	82.35%	87.88%	85.12%	
Chlororform	ppbv	10 J/J	14 J/J	1.6 J/J	NC	NC	NC	
1,1,1-Trichloroethane	ppbv	220	330	20	90.91%	93.94%	92.42%	
Carbon Tetrachloride	ppbv	ND	ND	ND	NC	NC	NC	
Benzene	ppbv	6,200	9,100	1,300	79.03%	85.71%	82.37%	
1,2-Dichloroethane	ppbv	49	56	9.2	81.22%	83.57%	82.40%	
Trichloroethene	ppbv	60	90	14	76.67%	84.44%	80.56%	
1,2-Dichloropropane	ppbv	52	81	6.5	87.50%	91.98%	89.74%	
cis-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
Toluene	ppbv	4,700	6,700	670	85.74%	90.00%	87.87%	
trans-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
1.1.2-Trichloroethane	ppbv	ND	9.4 J/J	ND	NC	NC	NC	
Tetrachloroethene	ppbv	23 J/J	34	11	NC	67.65%	NC	
Chlorobenzene	ppbv	250	380	66	73.60%	82.63%	78.12%	
Ethylbenzene	ppbv	1,100	1,700	130	88.18%	92.35%	90.27%	
m,p-Xylene	ppbv	5.400	7,900	600	88.89%	92.41%	90.65%	
o-Xylene	ppbv	1,700	2,500	180	89.41%	92.80%	91.11%	
Styrene	ppbv	ND	ND	38	NC	NC	NC	
1.1.2.2-Tetrachloroethane	ppbv	ND	ND	ND	NC	NC	NC	
Acetone	ppbv	210	330	53	74.76%	83.94%	79.35%	
Carbon Disulfide	ppbv	ND	ND	ND	NC	NC	NC	
trans-1,2-Dichloroethene	ppby	52 J/J	71 J/J	120	NC	NC	NC	
2-Butanone (MEK)	ppbv	110 J/J	170	21 J/J	NC	NC	NC	
Bromodichloromethane	ppbv	ND	ND	ND	NC	NC	NC	
4-Methyl-2-pentanone	ppbv	160	260	14 J/J	NC	NC	NC	
2-Hexanone	ppbv	ND	ND	ND	NC	NC	NC	
Dibromochloromethane	ppbv	ND	ND	ND	NC	NC	NC	
Bromoform	ppby	ND	ND	ND	NC	NC	NC	
	1	<u>: -=</u>						
Total	ppbv	33,751	49,551	5,629	83.32%	88.64%	85.98%	
Total	lb/hr	0.132	0.194	0.022	NC	NC	NC	
IDEM Discharge Requirement	lb/hr			3	NA	NA	NA	

\_/ - Laboratory data qualifier

/\_ - Data validation qualifier

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Total VOCs in lb/hr calculation based on air flow rate of V = 330 acfm

Estimated values are not used to calculate total ppbv.

<u>Oualifiers:</u>
J - Result is estimated

Table 2.3 Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Third Quarter 2002 American Chemical Service Griffith, Indiana

		Round 9 - Sampled 8/8/02						
		Analytical Dat		Destruction Efficiency				
Compounds	Units		Influent IN2		Low	High	Average	
Method TO-14							•	
Chloromethane	ppbv	ND	ND	130	NC	NC	NC	
Vinyl Chloride	ppbv	5,000	5,600	610	87.80%	89.11%	88.45%	
Bromomethane	ppbv	ND	ND	ND	NC	NC	NC	
Chloroethane	ppbv	2,100	2,400	180	91.43%	92.50%	91.96%	
1,1-Dichloroethene	ppbv	ND	ND	38	NC	NC	NC	
Methylene Chloride	ppbv	160	180	100	37.50%	44.44%	40.97%	
1,1-Dichloroethane	ppbv	680	780	57	91.62%	92.69%	92.15%	
cis-1,2-Dichloroethene	ppbv	10,000	12,000	1,100	90.83%	89.00%	89.92%	
Chlororform	ppbv	ND	ND	12	NC	NC	NC	
1,1,1-Trichloroethane	ppbv	410	460	19	95.37%	95.87%	95.62%	
Carbon Tetrachloride	ppbv	ND	ND	4.5 3/3	NC	NC	NC	
Benzene	ppbv	14,000	17,000	1,900	86.43%	88.82%	87.63%	
1,2-Dichloroethane	ppbv	84	86	40	52.38%	53.49%	52.93%	
Trichloroethene	ppbv	94	120	14	85.11%	88.33%	86.72%	
1,2-Dichloropropane	ppbv	63	86	5.2 J/J	NC	NC	NC	
cis-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
Toluene	ppbv	8,600	11,000	830	90.35%	92.45%	91.40%	
trans-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
1,1,2-Trichloroethane	ppbv	ND	ND	ND	NC	NC	NC	
Tetrachloroethene	ppbv	ND	65	19	NC	70.77%	NC	
Chlorobenzene	ppbv	760	1,000	140	81.58%	88.04%	88.04%	
Ethylbenzene	ppbv	2,000	2,600	150	92.50%	94.23%	93.37%	
m,p-Xylene	ppbv	7,700	11,000	560	92.73%	94.91%	93.82%	
o-Xylene	ppbv	2,400	3,400	180	92.50%	94.71%	93.60%	
Styrene	ppbv	ND	ND	28	NC	NC	NC	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND_	ND	NC	NC	NC	
Acetone	ppbv	190	240	120	36.84%	50.00%	43.42%	
Carbon Disulfide	ppbv	ND	ND	8.7 J/J	NC	NC	NC	
trans-1,2-Dichloroethene	ppbv	ND	ND	100	NC	NC	NC	
2-Butanone (MEK)	ppbv	ND	ND	9.4 ]/]	NC	NC	NC	
Bromodichloromethane	ppbv	ND	ND	ND	NC	NC	NC	
4-Methyl-2-pentanone	ppbv	ND	ND	5.5 J/J	NC	NC	NC	
2-Hexanone	ppbv	ND	ND	ND	NC	NC	NC	
Dibromochloromethane	ppbv	ND	ND	ND	NC	NC	NC	
Bromoform	ppbv	ND	ND	ND	NC	NC	NC	
Total	ppbv	54,241	68,017	6,327	88.34%	90.70%	89.52%	
Total	lb/hr	0.188	0.238	0.021	NC	NC	NC	
IDEM Discharge Requirement	i lb/hr			3	NA.	NA .	NA	

Notes:
\_/ - Laboratory data qualifier
/\_ - Data validation qualifier

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Total VOCs in lb/hr calculation based on air flow rate of V = 330 acfm Estimated values are not used to calculate total ppbv.

#### **Qualifiers:**

Table 2.3
Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Third Quarter 2002
American Chemical Service
Griffith, Indiana

		Round 10 - Sampled 9/30/02						
		Analytical Dat	a	Destruction Efficiency				
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average	
Method TO-14								
Chloromethane	ppbv	ND	ND	170	NC	NC	NC	
Vinyl Chloride	ppbv	2,400	2,900	410	82.92%	85.86%	84.39%	
Bromomethane	ppbv	ND	ND	ND	NC	NC	NC	
Chloroethane	ppbv	2,400	2,600	220	90.83%	91.54%	91.19%	
1,1-Dichloroethene	ppbv	ND	ND	49	NC	NC	NC	
Methylene Chloride	ppbv	3,200	3,300	550	82.81%	83.33%	83.07%	
1,1-Dichloroethane	ppbv	870	930	69	92.07%	92.58%	92.32%	
cis-1,2-Dichloroethene	ppbv	6,600	7,200	720	90.00%	89.09%	89.55%	
Chlororform	ppbv	50 J/J	48 J/J	4.4 J/J	NC	NC	NC	
1,1,1-Trichloroethane	ppbv	600	710	32	94.67%	95.49%	95.08%	
Carbon Tetrachloride	ppbv	ND	ND	ND	NC	NC	NC	
Benzene	ppbv	30,000	36,000	4,000	86.67%	88.89%	87.78%	
1,2-Dichloroethane	ppbv	ND	240	ND	NC	NC	NC	
Trichloroethene	ppbv	190	220	27	85.79%	87.73%	86.76%	
1,2-Dichloropropane	ppbv	34 J/J	48 J/J	2.8 J/J	NC	NC	NC	
cis-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
Toluene	ppbv	11,000	13,000	940	91.45%	92.77%	92.11%	
trans-1,3-Dichloropropene	ppbv	ND	ND	ND	NC	NC	NC	
1,1,2-Trichloroethane	ppbv	ND	ND	ND	NC	NC	NC	
Tetrachloroethene	ppbv	140	180	49	65.00%	72.78%	68.89%	
Chlorobenzene	ppbv	730	850	120	83.56%	88.04%	88.04%	
Ethylbenzene	ppbv	1,700	2,000	110	93.53%	94.50%	94.01%	
m,p-Xylene	ppbv	8,000	9,500	470	94.13%	95.05%	94.59%	
o-Xylene	ppbv	1,900	2,300	110	94.21%	95.22%	94.71%	
Styrene	ppbv	ND	ND	30	NC	NC	NC	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND	ND	NC	NC	NC	
Acetone	ppbv	1,000	1,100	160	84.00%	85.45%	84.73%	
Carbon Disulfide	ppbv	ND	ND	ND	NC	NC	NC	
trans-1,2-Dichloroethene	ppbv	ND	ND	56	NC	NC	NC	
2-Butanone (MEK)	ppbv	480 J/J	480 J/J	50 J/J	NC	NC	NC	
Bromodichloromethane	ppbv	ND	ND	ND	NC	NC	NC	
4-Methyl-2-pentanone	ppbv	360 J/J	370 J/J	19 J/J	NC	NC	NC	
2-Hexanone	ppbv	ND	ND	ND	NC	NC	NC	
Dibromochloromethane	ppbv	ND	ND	ND	NC	NC	NC	
Bromoform	ppbv	ND	ND	ND	NC	NC	NC	
m	<del>  _  </del>	B0 B30	02.020	0.000	00 A0 M	20018	00.145	
Total	ppbv	70,730	83,030	8,292	88.28%	90.01%	89.14%	
Total	lb/hr	0.271	0.318	0.031	NC NA	NC NA	NC NA	
IDEM Discharge Requirement	lb/br			3	NA NA	NA	NA.	

\_/ - Laboratory data qualifier

/\_ - Data validation qualifier

NC · Not calculated ND · Non-detect

ppbv - parts per billion volume

Destruction efficiency is not calculated where influent and/or effluent

values are estimated.

Total VOCs in lb/hr calculation based on air flow rate of V = 330 acfin

Estimated values are not used to calculate total ppbv

#### Qualifiers:

				Round 5 - Sa	mpled 7/2/02		
			Analytical Dat	a	Des	truction Effic	iency
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low (%)	High (%)	Average (%)
Method TO-13			·				<del></del>
Phenol	μg	ND	ND	ND	NC	NC	NC
bis(2-Chloroethyl)ether	μg	0.72 J/J	0.97 J/J	ND	NC NC	NC	NC NC
2-Chlorophenol 1.3-Dichlorobenzene	μg	ND 0.49 J/J	ND	ND ND	NC NC	NC NC	NC NC
1,4-Dichlorobenzene	μg	5.6	1.1	ND ND	NC NC	NC NC	NC NC
1,2-Dichlorobenzene	μg μg	9.9	18	ND	NC	NC NC	NC NC
2-Methylphenol (o-Cresol)	μg	ND	ND ND	ND	NC	NC NC	NC
N-Nitroso-di-n-propylamine	μg	ND	ND	ND	NC	NC	NC
4-Methylphenol	μg	ND	ND	ND	NC	NC	NC
Hexachloroethane	μд	ND	ND	ND	NC	NC	NC
Nitrobenzene	μg	ND	ND	ND	NC	NC	NC
Isophorone	μg	ND	ND	ND	NC	NC	NC
2-Nitrophenol	μg	ND	ND	ND	NC	NC	NC
2,4-Dimethylphenol	μg	ND	ND	ND	NC	NC	NC
bis(2-Chloroethoxy) Methane	μg	ND	ND	ND_	NC	NC	NC
2,4-dichlorophenol	μв	ND 1.3	ND 2.2	ND	NC NC	NC NC	NC NC
1,2,4-Trichlorobenzene Naphthalene	μg	1.3	3.4	ND ND	NC NC	NC NC	NC NC
4-Chloroaniline	µg ug	ND	ND	ND ND	NC NC	NC NC	NC NC
Hexachlorobutadiene	μg μg	ND	ND	ND	NC	NC NC	NC NC
4-Chloro-3-methylphenol	μд	ND	ND	ND	NC	NC	NC NC
2-Methylnaphthalene	μд	1.2	1.9	ND	NC	NC	NC NC
Hexachlorocyclopentadiene	μg	ND	ND	ND	NC	NC	NC
2,4,6-Trichlorophenol	μg	ND	ND	ND	NC	NC	NC
2,4,5-Trichlorophenol	μg	ND	ND	ND	NC	NC	NC
2-Chloronaphthalene	μg	ND	ND	ND	NC	NC	NC
2-Nitroaniline	μg	ND	ND	ND	NC	NC	NC
Dimethylphthalate	μg	ND	ND	ND	NC NC	NC NC	NC NC
Acenaphthylene	μg	ND	ND ND	ND	NC NC	NC NC	NC NC
2,6-Dinitrotoluene 3-Nitroaniline	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC
Acenaphthene	μg μg	ND ND	ND	ND	NC NC	NC	NC
2,4-Dinitrophenol	μд	ND	ND	ND	NC	NC	NC _
4-Nitrophenol	μg	ND	ND	ND	NC	NC	NC
2,4-Dinitrotoluene	μg	ND	ND	ND	NC	NC	NC
Dibenzofuran	μg	ND	ND	ND	NC	NC	NC
Diethylphthalate	μg	ND	ND	ND	NC	NC	NC
Fluorene	μg	ND	ND	ND	NCNC	NC	NC
4-Chlorophenyl-phenyl Ether	μg	ND	ND	ND ND	NC	NC_	NC
4-Nitroaniline	μg	ND	ND	ND ND	NC	NC NC	NC
4,6-Dinitro-2-methylphenol	μg	ND	ND NTD	ND	NC NC	NC NC	NC NC
N-Nitrosodiphenylamine 4-Bromophenyl-phenyl Ether	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC
Hexachlorobenzene	μg μg	ND ND	ND ND	ND	NC	NC	NC NC
Pentachlorophenol	μд	ND	ND	ND	NC	NC	NC NC
Phenanthrene	μg	ND	ND	ND	NC	NC	NC
Anthracene	μg	ND	ND	ND	NC	NC	NC
di-n-Butylphthalate	μд	0.79 J/J	0.87 J/J	ND	NC	NC	NC
Fluoranthene	μд	ND	ND	ND	NC	NC	NC
Pyrene	μg	ND	ND	ND	NC	NC	NC NC
Butylbenzylphthalate	μg	ND	ND	ND	NC NC	NC NC	NC
3.3'-Dichlorobenzidine	μg	ND	ND ND	ND	NC NC	NC NC	NC NC
Chrysene Benzo(a)anthracene	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC
bis(2-Ethylhexyl)phthalate	μg	ND ND	ND ND	ND ND	NC NC	NC	NC NC
Di-n-Octylphthalate	μg μg	ND	ND	ND ND	NC NC	NC	NC
Benzo(b)fluoranthene	μg	ND	ND	ND ND	NC	NC	NC
Benzo(k)fluoranthene	μg	ND	ND	ND	NC	NC	NC
Benzo(a)pyrene	μg	ND	ND	ND	NC	NC	NC
Indeno(1,2,3-c,d)pyrene	μg	ND	ND	ND	NC	NC	NC
Dibenz(a,h)anthracene	μд	ND	ND	ND	NC	NC	NC
Benzo(g,h.i)perylene	μg	ND	ND	ND	NC	NC	NC
T	<del>       </del>	10.70	20.50	0.00	100.000	100.00	100.00
Total	μg	19.60	38.70	0.00	100.00%	100.00%	100.00%

#### Notes:

#### Qualifiers:

\_/ - Laboratory data qualifier

J - Result is estimated

/\_ - Data validation qualifier

JB - Analyte is detected in the method blank resulting in potential

bias high. Reported concentration is estimated

μg - Microgram NC - Not calculated

ND - Non-detect

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

		Round 6 - Sampled 7/12/02								
			Analytical Dat			truction Effic				
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low (%)	High (%)	Average (%			
Method TO-13	1		1 175				1 10			
Phenol	μg	ND_	ND	ND	NC	NC	NC NC			
bis(2-Chloroethyl)ether	μg	2.0	1.7	ND	NC NC	NC	NC_			
2-Chlorophenol	μg	ND ND	ND	ND	NC NC	NC NC	NC NC			
1,3-Dichlorobenzene	μв	ND ND	ND	ND	NC NC	NC NC	NC NC			
1,4-Dichlorobenzene	μg	0.63 J/J	ND	ND	NC NC	NC NC	NC NC			
1,2-Dichlorobenzene	μg	0.82 J/J	ND	ND	NC NC	NC NC	NC			
2-Methylphenol (o-Cresol)	μg	ND	ND	ND	NC NC	NC NC	NC NC			
N-Nitroso-di-n-propylamine	μg	ND	ND	ND	NC NC	NC NC	NC_			
4-Methylphenol	μд	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC			
Hexachloroethane Nitrobenzene	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC			
Isophorone	μg	ND ND	ND	ND	NC NC	NC NC	NC NC			
2-Nitrophenol	μg	ND	ND	ND	NC NC	NC NC	NC			
2,4-Dimethylphenol	μg	ND	ND	ND	NC NC	NC NC	NC NC			
bis(2-Chloroethoxy) Methane	μg	ND ND	ND	ND	NC NC	NC NC	NC			
2,4-dichlorophenol	μg	ND ND	ND ND	ND	NC NC	NC NC	NC NC			
1,2,4-Trichlorobenzene	μg	ND ND	ND	ND	NC NC	NC NC	NC NC			
Naphthalene	μg μg	0.36 J/J	ND	ND	NC NC	NC NC	NC NC			
4-Chloroaniline	μв	ND	ND	ND	NC NC	NC	NC NC			
Hexachlorobutadiene	μg	ND	ND	ND	NC NC	NC	NC NC			
4-Chloro-3-methylphenol	μg	ND ND	ND	ND	NC NC	NC NC	NC NC			
2-Methylnaphthalene	μд	0.53 J/J	ND	ND	NC NC	NC NC	NC NC			
Hexachlorocyclopentadiene	μg	ND	ND	ND	NC	NC	NC			
2,4,6-Trichlorophenol	μg	ND	ND	ND	NC	NC	NC			
2,4,5-Trichlorophenol	μg	ND	ND	ND	NC	NC	NC			
2-Chloronaphthalene	μg	ND	ND	ND	NC	NC	NC			
2-Nitroaniline	μg	ND	ND	ND	NC	NC	NC			
Dimethylphthalate	μg	ND	ND	ND	NC	NC	NC			
Acenaphthylene	μg	ND	ND	ND	NC	NC	NC			
2,6-Dinitrotoluene	μg	ND	ND	ND	NC	NC	NC			
3-Nitroaniline	μд	ND	ND	ND	NC	NC	NC			
Acenaphthene	μg	ND	ND	ND	NC	NC	NC			
2,4-Dinitrophenol	μg	ND	ND	ND	NC	NC	NC			
4-Nitrophenol	μg	ND	ND	ND	NC	NC	NC			
2,4-Dinitrotoluene	μg	ND	ND	ND	NC	NC	NC			
Dibenzofuran	μg	ND	ND	ND	NC	NC	NC			
Diethylphthalate	μg	ND	ND	0.32 J/J	NC	NC	NC			
Fluorene	μg	ND	ND	ND	NC	NC NC	NC			
4-Chlorophenyl-phenyl Ether	μg	ND	ND	ND	NC	NC	NC			
4-Nitroaniline	μg	ND	ND	ND	NC	NC	NC			
4,6-Dinitro-2-methylphenol	μg	ND	ND	ND	NC	NC	NC			
N-Nitrosodiphenylamine	μg	ND	ND	ND	NC	NC	NC			
4-Bromophenyl-phenyl Ether	μg	ND	ND	ND	NC	NC	NC			
Hexachlorobenzene	μg	ND	ND	ND	NC	NC	NC			
Pentachlorophenol	μg	ND	ND	ND	NC	NC	NC			
Phenanthrene	μg	ND	ND	ND	NC	NC	NC			
Anthracene	μg	ND ND	ND	ND	NC	NC NC	NC NC			
di-n-Butylphthalate	μg	0.61 J/J	ND	ND	NC NC	NC	NC NC			
Fluoranthene	μg	ND	ND	ND ND	NC NC	NC NC	NC			
Pyrene	μg	ND 0.22 UB	ND 0.41 LUD	ND 054 UID	NC NC	NC NC	NC NC			
Butylbenzylphthalate	μg	0.33 J/JB	0.41 J/JB	0.54 J/JB	NC NC	NC NC	NC NC			
3,3'-Dichlorobenzidine	μg	ND	ND	ND N'D	NC	NC NC	NC NC			
Chrysene	μg	ND	ND	ND ND	NC NC	NC NC	NC NC			
Benzo(a)anthracene	μg	ND ND	ND ND	ND 201/1	NC NC	NC NC	NC NC			
bis(2-Ethythexyl)phthalate	μg	ND ND	ND ND	3.0 J/J		NC NC	+			
Di-n-Octylphthalate	μg	ND	ND ND	ND ND	NC NC	NC NC	NC NC			
Benzo(b)fluoranthene	μg	ND		ND ND	NC NC	NC NC	<del></del>			
Benzo(k)fluoranthene	μg	ND	ND ND	ND ND	NC NC	NC NC	NC NC			
Benzo(a)pyrene	μg	ND	ND ND	ND ND		NC NC				
Indeno(1,2,3-c.d)pyrene	μg	ND		ND ND	NC NC	NC NC	NC NC			
Dibenz(a,h)anthracene Benzo(g,h,i)perylene	μд	ND	ND ND	ND ND	NC NC	NC NC	NC NC			
Denzo(g,n,i)perylene	μg	ND	ND	ND	NC	NC	NC			

Notes:

#### Qualifiers:

\_/ - Laboratory data qualifier

/\_ - Data validation qualifier

J - Result is estimated

JB - Analyte is detected in the method blank resulting in potential

μg - Microgram

bias high. Reported concentration is estimated

NC - Not calculated

ND - Non-detect

Destruction efficiency is not calculated where influent and/or effluent values are estimated

		Round 7 - Sampled 7/18/02 Analytical Data Destruction Efficiency							
Compounds	Units		Influent IN2		Low (%)		Average (%)		
Method TO-13	JUmis	intident IN1	Imiuent 1N2	Elliuent EF I	LUW (%)_	High (%)	Average (%		
Phenol	Пия	ND	ND/UJ	ND	NC	NC	NC		
bis(2-Chloroethyl)ether	μg	ND	ND/UJ	ND	NC	NC NC	NC NC		
2-Chlorophenol	μg μg	ND ND	ND/UJ	ND	NC	NC NC	NC NC		
1.3-Dichlorobenzene	μв	0.82 J/J	ND /UJ	ND	NC NC	NC	NC NC		
1.4-Dichlorobenzene	μд	9.3	3.1 /J	ND	NC	NC NC	NC NC		
1,2-Dichlorobenzene	μд	16	5.5 /J	ND	NC	NC NC	NC NC		
2-Methylphenol (o-Cresol)	μд	ND ND	ND /UJ	ND	NC	NC	NC		
N-Nitroso-di-n-propylamine	μе	ND	ND /UJ	ND	NC	NC NC	NC NC		
4-Methylphenol	μg	ND	ND /UJ	ND	NC	NC	NC		
Hexachloroethane	μд	ND	ND/UJ	ND	NC	NC	NC		
Nitrobenzene	μg	ND	ND /UJ	ND	NC	NC	NC		
Isophorone	μд	ND	ND /UJ	ND	NC	NC	NC		
2-Nitrophenol	μд	ND	ND /UJ	ND	NC	NC	NC		
2,4-Dimethylphenol	μg	ND	ND /UJ	ND	NC	NC	NC		
bis(2-Chloroethoxy) Methane	μд	ND	ND /UJ	ND	NC	NC	NC		
2,4-dichlorophenol	μg	ND	ND /UJ	ND	NC	NC	NC		
1,2,4-Trichlorobenzene	μg	1.9	0.67 J/J	ND	NC	NC	NC		
Naphthalene	μg	3.4	1.1 /J	ND	NC	NC	NC		
4-Chloroaniline	μg	ND	ND /UJ	ND	NC	NC	NC		
Hexachlorobutadiene	μg	ND	ND/UJ	ND	NC	NC	NC		
4-Chloro-3-methylphenol	μg	ND	ND /UJ	ND	NC	NC	NC		
2-Methylnaphthalene	μg	1.6	0.54 ]/J	ND	NC	NC	NC		
Hexachlorocyclopentadiene	μg	ND	ND /UJ	ND	NC	NC	NC		
2,4,6-Trichlorophenol	μg	ND	ND/UJ	ND	NC	NC	NC		
2,4,5-Trichlorophenol	μg	ND	ND/UJ	ND	NC	NC	NC		
2-Chloronaphthalene	μg	ND	ND/UJ	ND	NC	NC	NC		
2-Nitroaniline	μg	ND	ND/UJ	ND	NC	NC	NC		
Dimethylphthalate	μд	ND	ND/UJ	ND	NC	NC	NC		
Acenaphthylene	μg	ND	ND /UJ	ND	NC	NC	NC		
2,6-Dinitrotoluene	μg	ND	ND/UJ	ND	NC	NC	NC		
3-Nitroaniline	μg	ND	ND/UJ	ND	NC	NC NC	NC		
Acenaphthene	μg	ND	ND/UJ	ND	NC	NC	NC		
2,4-Dinitrophenol	μg	ND	ND/UJ	ND	NC	NC	NC		
4-Nitrophenol	μg	ND	ND /UJ	ND	NC	NC	NC		
2,4-Dinitrotoluene	μд	ND	ND/UJ	ND	NC	NC	NC		
Dibenzofuran	μg	ND	ND/UJ	ND	NC	NC	NC		
Diethylphthalate	μg	0.36 J/JB	0.32 Ј/ЈВ	0.37 J/JB	NC	NC	NC		
Fluorene	μg	ND	ND /UJ	ND	NC	NC	NC		
4-Chlorophenyl-phenyl Ether	μg	ND	ND /UJ	ND	NC	NC	NC		
4-Nitroaniline	μg	ND	ND /UJ	ND	NC	NC	NC		
4.6-Dinitro-2-methylphenol	μв	ND	ND /UJ	ND	NC	NC	NC		
N-Nitrosodiphenylamine	μg	ND	ND /UJ	ND	NC	NC	NC		
4-Bromophenyl-phenyl Ether	μg	ND	ND /UJ	ND	NC	NC NC	NC NC		
Hexachlorobenzene	μg	ND ND	ND /UJ	ND	NC NC	NC	NC NC		
Pentachlorophenol	μg	ND	ND /UJ	ND	NC NC	NC NC	NC NC		
Phenanthrene Anthreaena	μg	ND ND	ND /UJ	ND ND	NC NC	NC NC	NC NC		
Anthracene di-n-Butylphthalate	μg	ND 0.60 L/IB	ND /UJ	ND 0.42 J/JB	NC NC	NC NC	NC NC		
	μg	0.60 J/JB			NC NC		NC NC		
Fluoranthene Pyrene	μg	ND ND	ND /UJ	ND ND	NC NC	NC NC	NC NC		
Butylbenzylphthalate	μg	0.88 J/JB	0.96 J/JB	1.6 J/JB	NC NC	NC	NC NC		
3,3'-Dichlorobenzidine	μg	ND	ND /UJ	ND ND	NC NC	NC NC	NC NC		
Chrysene	μд	ND ND	ND /UJ	ND ND	NC NC	NC NC	NC NC		
Benzo(a)anthracene	μд	ND	ND /UJ	ND ND	NC NC	NC	NC NC		
bis(2-Ethylhexyl)phthalate	μg	3.4 J/J	4.2 J/J	7.5	NC NC	NC NC	NC NC		
Di-n-Octylphthalate	μg	ND	ND/UJ	ND T	NC NC	NC	NC		
Benzo(b)fluoranthene	μg μg	ND	ND/UJ	ND ND	NC NC	NC NC	NC		
Benzo(k)fluoranthene		ND ND	ND/UJ	ND	NC	NC	NC		
Benzo(a)pyrene	μg	ND ND	ND/UJ	ND ND	NC NC	NC NC	NC		
Indeno(1,2,3-c,d)pyrene	μg	ND	ND/UJ	ND ND	NC	NC NC	NC		
Dibenz(a,h)anthracene	μg	ND ND	ND/UJ	ND ND	NC NC	NC NC	NC		
Benzo(g,h,i)perylene	μg μg	ND	ND/UJ	ND ND	NC NC	NC NC	NC		
	1 MK	140	110/01	110	110	140	1 110		
retize(g,ii,i/peryletic	1 1								

#### Notes:

#### Qualifiers:

\_/ - Laboratory data qualifier

J - Result is estimated

/\_ - Data validation qualifier

JB - Analyte is detected in the method blank resulting in potential

bias high. Reported concentration is estimated.

μg - Microgram NC - Not calculated

ND - Non-detect

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 2.4
Summary of Catalytic Oxidizer Off-Gas Analytical Results for SVOCs (Method TO-13) - Third Quarter 2002
American Chemical Service
Griffith, Indiana

		Round 8 - Sampled 7/25/02							
			Analytical Dat			truction Effic			
Compounds	Units	Influent IN1	Influent IN2	Effluent EF1	Low (%)	High (%)	Average (%		
Method TO-13				- 3			l NG		
Phenol	μд	ND	ND	ND	NC NC	NC NC	NC NC		
bis(2-Chloroethyl)ether	μg	ND	ND	ND	NC_	NC NC	NC NC		
2-Chlorophenol	μg	ND	ND	ND	NC NC	NC NC	NC NC		
1.3-Dichlorobenzene	μg	1.1	1.4	ND	NC NC	NC NC	NC NC		
1.4-Dichlorobenzene	μg	20	15 25	ND 0.62 J/J	NC NC	NC NC	NC NC		
1.2-Dichlorobenzene	μg	ND ND		ND	NC NC	NC NC	NC NC		
2-Methylphenol (o-Cresol)	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
N-Nitroso-di-n-propylamine 4-Methylphenol	μg	ND ND	ND	ND	NC NC	NC NC	NC NC		
Hexachloroethane	μg	ND	ND	ND	NC NC	NC NC	NC NC		
Nitrobenzene	μg	ND	ND	ND	NC	NC NC	NC NC		
Isophorone	μg	ND	ND	ND	NC	NC	NC NC		
2-Nitrophenol	μg	ND	ND	ND	NC NC	NC NC	NC NC		
2,4-Dimethylphenol	μg	ND ND	ND ND	ND	NC	NC NC	NC NC		
bis(2-Chloroethoxy) Methane	μg	ND	ND	ND	NC NC	NC NC	NC NC		
2,4-dichlorophenol	μg	ND	ND	ND	NC NC	NC NC	NC NC		
1,2,4-Trichlorobenzene	μg μg	2.2	2.7	ND	NC	NC NC	NC NC		
Naphthalene	μв	1.9	2.5	ND	NC	NC	NC NC		
4-Chloroaniline	μв	ND	ND ND	ND	NC NC	NC NC	NC NC		
Hexachlorobutadiene	μв	ND ND	ND ND	ND	NC	NC NC	NC NC		
4-Chloro-3-methylphenol	μд	ND	ND	ND	NC	NC	NC		
2-Methylnaphthalene	μв	1.1	1.5	ND	NC	NC	NC NC		
Hexachlorocyclopentadiene	μд	ND	ND ND	ND	NC	NC	NC		
2,4,6-Trichlorophenol	μg	ND	ND	ND	NC	NC	NC NC		
2,4,5-Trichlorophenol	μд	ND	ND	ND	NC	NC	NC		
2-Chloronaphthalene	μg	ND	ND	ND	NC	NC	NC		
2-Nitroaniline	μg	ND	ND	ND	NC	NC	NC		
Dimethylphthalate	μg	ND	ND	ND	NC	NC	NC		
Acenaphthylene	μg	ND	ND	ND	NC	NC	NC		
2,6-Dinitrotoluene	μg	ND	ND	ND	NC	NC	NC		
3-Nitroaniline	μg	ND	ND	ND	NC	NC	NC		
Acenaphthene	μg	ND	ND	ND	NC	NC	NC		
2,4-Dinitrophenol	μg	ND	ND	ND	NC	NC	NC		
4-Nitrophenol	μg	ND	ND	ND	NC	NC	NC		
2,4-Dinitrotoluene	μg	ND	ND	ND	NC	NC	NC		
Dibenzofuran	μg	ND	ND	ND	NC	NC	NC		
Diethylphthalate	μg	0.38 Ј/ЈВ	0.39 J/JB	0.43 J/JB	NC	NC	NC		
Fluorene	μg	ND	ND	ND	NC	NC	NC		
4-Chlorophenyl-phenyl Ether	μg	ND	ND	ND	NC	NC	NC		
4-Nitroaniline	μg	ND	ND	ND	NC	NC	NC		
4,6-Dinitro-2-methylphenol	μg	ND	ND	ND	NC	NC	NC		
N-Nitrosodiphenylamine	μg	ND	ND	ND	NC	NC	NC		
4-Bromophenyl-phenyl Ether	μg	ND	ND	ND	NC	NC	NC		
Hexachlorobenzene	μg	ND	ND	ND	NC	NC	NC		
Pentachlorophenol	μв	ND	ND	ND	NC	NC	NC		
Phenanthrene	μв	ND	ND	ND	NC	NC	NC		
Anthracene	μд	ND	ND	ND	NC	NC	NC		
di-n-Butylphthalate	μg	0.66 J/JB	0.77 J/JB	ND	NC	NC	NC		
Fluoranthene	μg	ND	ND	ND	NC	NC	NC		
Рутепе	μg	ND	ND	ND ND	NC	NC	NC		
Butylbenzylphthalate	μg	0.43 J/JB	0.45 J/JB	0.30 J/JB	NC	NC	NC		
3,3'-Dichlorobenzidine	μg	ND	ND	ND	NC	NC	NC		
Chrysene	μв	ND	ND	ND	NC	NC	NC NC		
Benzo(a)anthracene	μg	ND	ND	ND	NC	NC	NC		
bis(2-Ethylhexyl)phthalate	μд	ND	ND	ND	NC	NC NC	NC		
i-n-Octylphthalate μ		ND	ND	ND	NC NC	NC	NC		
enzo(b)fluoranthene με		ND	ND	ND	NC	NC	NC NC		
Benzo(k)fluoranthene	μg	ND	ND	ND	NC	NC	NC		
Benzo(a)pyrene	μg	ND	ND	ND	NC	NC	NC		
Indeno(1,2,3-c,d)pyrene	μg	ND	ND	ND	NC	NC	NC		
Dibenz(a,h)anthracene	μg	ND	ND	ND ND	NC	NC NC	NC NC		
Benzo(g,h,i)perylene	μg	ND	ND	ND	NC	NC _	NC		
7. 4-1	1	20.20	40.40		100.00 =	100.00~	100 00 ~		
Total	μg	38.30	48.10	0.00	100.00%	100.00%	100.00%		

#### **Qualifiers:**

\_/ - Laboratory data qualifier

J - Result is estimated

/\_ - Data validation qualifier μg - Microgram

JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.

NC - Not calculated

ND - Non-detect

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

		Round 9 - Sampled 8/8/02							
Compounds	Units	Influent IN1	Analytical Dat	Effluent EF1	Des Low (%)	truction Effici	Average (%		
Method TO-13	Units	influent IN1	influent INZ	Elliuent Er I	LOW (%)	High (%)	Average (%		
Phenol	μg	ND ND	ND	ND	NC	NC	NC		
bis(2-Chloroethyl)ether	μg	ND	ND	ND	NC	NC	NC		
2-Chlorophenol	μд	ND	ND	ND	NC	NC	NC		
1,3-Dichlorobenzene	μg_	0.88 J/J	0.99 J/J	ND	NC	NC	NC		
1.4-Dichlorobenzene	μg	9.9	11	2.1	78.79%	91.67%	91.67%		
1,2-Dichlorobenzene	μg	14	16	2.6	83.75%	81.43%	82.59%		
2-Methylphenol (o-Cresol)	μg	ND	ND	ND_	NC	NC	NC		
N-Nitroso-di-n-propylamine	μg	ND	_ND	ND	NC	NC	NC		
4-Methylphenol	μg	ND	ND	ND ND	NC	NC	NC		
Hexachloroethane	μg	ND	ND	ND	NC NC	NC NC	NC_		
Nitrobenzene	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
2-Nitrophenol	μg	ND ND	ND	ND ND	NC	NC NC	NC NC		
2,4-Dimethylphenol	μg μg	ND ND	ND	ND	NC NC	NC NC	NC		
bis(2-Chloroethoxy) Methane	μд	ND ND	ND	ND	NC NC	NC NC	NC NC		
2,4-dichlorophenol	μд	ND	ND	ND	NC	NC	NC		
1,2,4-Trichlorobenzene	μg	1.2	1.4	0.39 J/J	NC	NC	NC		
Naphthalene	μд	1.9	2.4	ND	100.00%	100.00%	100.00%		
4-Chloroaniline	μg	ND	ND	ND	NC	NC	NC		
Hexachlorobutadiene	μg	ND	ND	ND	NC	NC	NC		
4-Chloro-3-methylphenol	μд	ND	ND	ND	NC	NC	NC		
2-Methylnaphthalene	μg	0.54 J/J	0.71 J/J	ND	NC	NC	NC		
Hexachlorocyclopentadiene	μg	ND	ND	ND	NC	NC	NC_		
2,4,6-Trichlorophenol	μg	ND	ND	ND_	NC	NC	NC NC		
2,4,5-Trichlorophenol	μg	ND	ND	ND	NC	NC NC	NC NC		
2-Chloronaphthalene 2-Nitroaniline	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
Dimethylphthalate	μg	ND ND	ND	ND	NC NC	NC NC	NC NC		
Acenaphthylene	μg μg	ND	ND	ND	NC NC	NC NC	NC NC		
2,6-Dinitrotoluene	μв	ND	ND	ND ND	NC NC	NC NC	NC NC		
3-Nitroaniline	μв	ND	ND	ND	NC	NC	NC NC		
Acenaphthene	μg	ND /R	ND/R	ND/R	NC	NC	NC		
2,4-Dinitrophenol	μд	ND	ND	ND	NC	NC	NC		
4-Nitrophenol	μg	ND	ND	ND	NC	NC	NC NC		
2,4-Dinitrotoluene	μg	ND	ND	ND	NC	NC	NC		
Dibenzofuran	μд	ND	ND	ND	NC	NC	NC		
Diethylphthalate	μg	0.21 J/J	ND	0.29 J/J	NC	NC	NC		
Fluorene	μg	ND	ND	ND	NC	NC NC	NC NC		
4-Chlorophenyl-phenyl Ether	μg	ND	ND	ND	NC NC	NC NC	NC NC		
4-Nitroaniline	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
4-Bromophenyl-phenyl Ether	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
Hexachlorobenzene	μg μg	ND	ND	ND ND	NC NC	NC	NC NC		
Pentachlorophenol	μд	ND	ND	ND	NC NC	NC NC	NC NC		
Phenanthrene	μg	ND	ND	ND	NC	NC	NC		
Anthracene	μg	ND	ND	ND	NC	NC	NC		
di-n-Butylphthalate	μд	ND	ND	ND	NC	NC	NC		
Fluoranthene	μg	ND	ND	ND	NC	NC	NC		
Pyrene	μg	ND	ND	ND	NC	NC	NC		
Butylbenzylphthalate	μg	0.24 J/J	ND	ND_	NC NC	NC NC	NC NC		
3,3'-Dichlorobenzidine	μg	ND	ND ND	ND ND	NC NC	NC NC	NC NC		
Chrysene Benzo(a)anthracene	μд	ND ND	ND	ND ND	NC NC	NC NC	NC NC		
bis(2-Ethylhexyl)phthalate	μg	ND ND	ND ND	ND ND	NC NC	NC NC	NC NC		
Di-n-Octylphthalate	μg	ND	ND ND	ND ND	NC NC	NC NC	NC NC		
Benzo(b)fluoranthene	μg μg	ND	ND	ND ND	NC NC	NC NC	NC NC		
Benzo(k)fluoranthene	μg	ND	ND	ND ND	NC NC	NC	NC		
Вепло(а)ругепе	μд	ND	ND	ND ND	NC NC	NC	NC		
Indeno(1,2,3-c,d)pyrene	μg	ND	ND	ND	NC	NC	NC		
Dibenz(a,h)anthracene	μg	ND	ND	ND	NC	NC	NC		
Benzo(g,h,i)perylene	μg	ND	ND	ND	NC	NC	NC		
Total	μg	27.0	30.8	4.7	82.59%	84.74%	83.67%		

### Notes:

#### Qualifiers: J - Result is estimated

\_/ - Laboratory data qualifier /\_ - Data validation qualifier  $\mu g$  - Microgram

JB - Analyte is detected in the method blank resulting in potential

bias high Reported concentration is estimated

NC - Not calculated

ND - Non-detect

Destruction efficiency is not calculated where influent and/or effluent values are estimated

Table 4.1

#### Water Table Elevations Across the Barrier Wall and Near the PGCS - Third Quarter 2002 American Chemical Service NPL Site Griffith, Indiana

**Upper Aquifer Wells** 

ar and a second	Reference Points			9/	9/2002		Difference Across
Well Designation	East	North	TOIC	level	Elevation	Notes	Barrier Wall (if applicable) <sup>1</sup>
MWII	6377	7329	640.47	9.58	630.89		n/a
MWI3	5050	7814	634.08	6.18	627.90		n/a
MW37	5395	7976	636.78	8.46	628.32		n/a
MW46	4526	7424	633.32	5.23	628.09		ואַז
MW48	5669	7814	636.36	7.73	628.63		n/a
MW49	5551	7650	637.00	8.23	628.77		n/a

Staff Gauges & Piezometers

<b>建设设施</b>	Rei ⊶يُ Rei	erence Po	ints	: * * <b>9/</b>	9/2002	to desirable in the	Difference Across
Well Designation		North	TOSG	level a	Elevation	Notes	Barrier Wall (if applicable) <sup>1</sup>
P23	4689	7018	636.18	8.38	627.80		n/a
P25	5131	7510	635.01	7.74	627.27		n/a
P26	4764	7309	634.23	5.34	628 89		n/a
P27	4904	7020	639.70	11.83	627.87		n/a
P28	5883	7486	644.53	14.32	630 21		n/a
P32	5746	7026	642 32	10.44	631.88		n/a
P40	5931	7241	638 77	7.68	631.09		u/a
P41	5663	7377	637.23	6.71	630.52		n/a
P49	5145	6949	638.98	9.38	629.60		n/a
SG13		-	631.53	4.48	630.01	TOSG = 6.0' mark	n/a

Notes:
All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.
TOIC = top of inner casing
TOSG = top of staff gauge
TOSG = top of staff gauge
CNM = could not measure (reason given under "Notes" column)
n/a = not applicable
1 = A positive value indicates that the water level is higher inside the barrier wall. A negative value indicates that the water level is lower inside the oarrier wall.

#### Table 4.1

#### Water Table Elevations Across the Barrier Wall and Near the PGCS - Third Quarter 2002 American Chemical Service NPL Site Griffith, Indiana

#### **PGCS** Piezometer Sets

14 mag	Re	erence Po	ints	Mg 9/	9/2002	a topological and	Difference Across
Well Designation	East	North	TOC	level	Elevation	Notes	Barrier Wall (if applicable) <sup>1</sup>
P81	5577	7581	636.19	7.36	628.83		n/a
P82	5577	7572	635.77	6.94	628.83		n/a
P83	5577	7561.6	635.95	7.16	628.79		n/a
P84	5322	7603	634.35	CNM	NM	Could not access due to wasps nest	n/a
P85	5326	7594	634.08	6.67	627.41		n/a
P86	5329	7585	634.41	6.70	627.71		n/a
P87	5121	7466	633.88	6.74	627.14		ก/ล
P88	5130	7460	633.90	CNM	NM	Could not access due to wasps nest	n/a
P89	5137	7454	634.02	6.71	627.31		n/a
P90	4881	7152	632 59	6.33	626.26		n/a
P91	4889	7145	632.97	6.72	626.25		n/a
P92	4896	7138.1	633.63	6.93	626.70		n/a

#### **BWES Water Level and Piezometer Pairs**

A STATE OF THE STA	1 Si Rei	erence Po	inti 🦭 .	14 T 9	9/2002	14.00	Difference Across
Well Designation			TOC	ievel	Elevation	Notes	Barrier Wall (if applicable)
P93 - Outside BW	5136	7067	638.79			Does not exist - to be	
				CNM	NM	replaced	n/a
P94 - Inside BW	5146	7061	638.98	ł		Does not exist - to be	
				CNM	NM	replaced	
P95 - Outside BW	5146	6532	638.58	10.41	628.17		-7.08
P96 - Inside BW	5156	6537	638.39	17.30	621.09		-1.00
P105 - Outside BW	5885	6678	638.86	7.26	631.60		-1.51
P106 - Inside BW	5871	6685	638.10	8.01	630.09		-1.51
P107 - Outside BW	5766	7339	637.42	7.28	630.14		1.57
P108 - Inside BW	5757	7324	638.13	6.42	631.71		1.37
P109 - Outside BW	5740	6387	644.30	12.50	631.80		-4.60
P110 - Inside BW	5705	6382	647.68	20.48	627.20		7+.00
P111 - Outside BW	5551	5950	650.03	18.49	631.54		-5.69
P112 - Inside BW	5525	5960	653.36	27.51	625.85		-3.09
P113 - Inside BW	5309	5693	657.53	30.27	627.26		
ORCPZ102 - Outside	5331	5612	652.47	21.41	631 06		-3.80
BW							
P114 - Inside BW	5035	5729	653.69	25.48	628 21		0.87
P115 - Outside BW	4970	5708	652.50	25.16	627 34		U.87
P116 - Inside BW	5031	6087	646.26	18.69	627.57		-2.66
P117 - Outside BW	5014	6087	643.93	13 70	630.23		-3.00
P118 - Inside BW	5402	6539	645.52	19.61	625.91		n/a

Notes:
All depth measurements and elevations are in units of feet.

Elevation is in feet above mean sea level.

TOIC = top of inner casing

TOC = top of casing TOSG = top of staff gauge

CNM = could not measure (reason given under "Notes" column)

n/a = not applicable

1 = A positive value indicates that the water level is higher inside the barrier wall. A negative value indicates that the water level is lower inside the barrier wall.

Table 4.2
Water Levels Inside Barrier Wall - Third Quarter 2002
American Chemical Service NPL Site
Griffith, Indiana

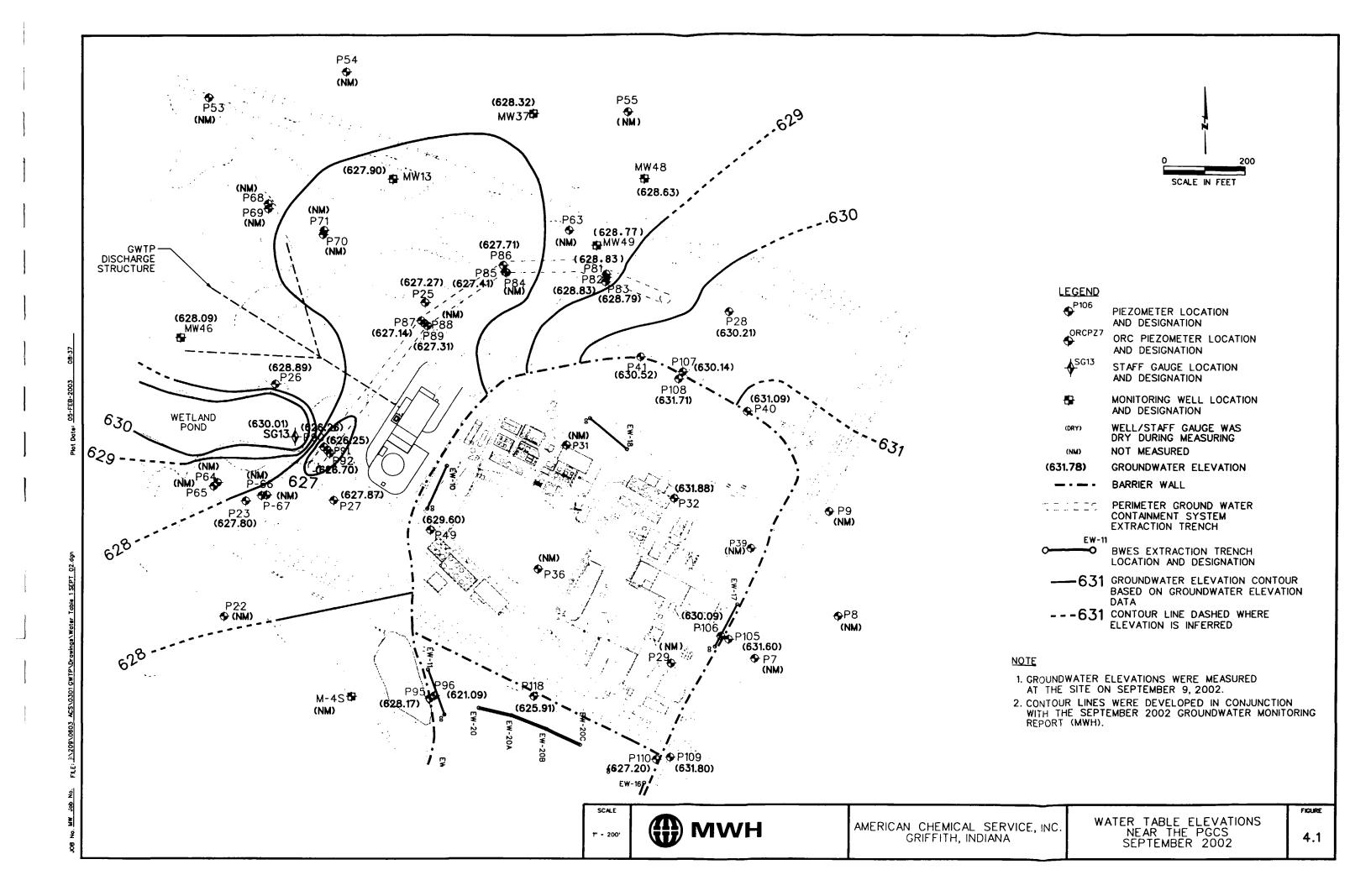
		On-Site Area											
Date	Target Level	P-29	P-31	P-32	P-36	P-49	P-106	P-108					
5-Jul-02	629 0	633.1	635.2	633.6	630.5	634 9	636.5	637 7					
12-Jul-02	629.0	633.1	635.4	633.4	630.4	635.1	636.8	637.4					
19-Jul-02	629.0	632.7	634.8	633.2	630.0	634 6	636.1	637.2					
26-Jul-02	629.0	632.4	634.2	633.0	629.8	634.1	635.4	637.0					
2-Aug-02	629.0	632.1	633.9	632.8	629.4	633.7	635.3	636.8					
9-Aug-02	629 0	631.9	633.5	632.7	629.1	633.5	635.3	636.7					
16-Aug-02	629.0	631.5	633.1	632.5	628.3	633.2	634.4	636.5					
23-Aug-02	629.0	631.4	632.9	632.4	628.2	633.1	634 2	636.5					
30-Aug-02	629.0	630.5	632 6	632.1	627.8	632.8	634.2	636 3					
6-Sep-02	629.0	630.8	632.4	631.9	627.6	632.4	633.8	635.5					
13-Sep-02	629.0	630.9	632.5	632.1	627.6	633 1	634.4	635.9					
20-Sep-02	629.0	630.7	632.6	631.9	626.7	631.5	633.3	635.7					
27-Sep-02	629.0	630 5	632.6	631.5	626.7	631.5	633.4	635.6					

		Off-Site Area												
Date	Target Level	P-96	P-110	P-112	P-113	P-114	P-116	P-118	AS-7	AS-8	AS-9			
5-Jul-02	626.0	621.2	627.9	624.8	627.4	628.4	627.8	626.5	627.3	627.1	626.8			
12-Jul-02	626.0	621.5	628.0	625.7	627.5	628.5	627.9	626 4	627.2	626.8	626.8			
19-Jul-02	626.0	621.3	627.8	625 0	627.4	628.5	627.9	626.4	627.0	626.8	626.7			
26-Jul-02	626.0	621.1	627.5	624.2	627.3	628.4	627.9	626.3	627.0	626.8	626.7			
2-Aug-02	626.0	620.8	627.3	624.2	627.2	628.1	627.7	626.3	627.4	626.5	626.9			
9-Aug-02	626.0	620.6	627.2	624.2	627.0	627.8	627.7	626.2	627.3	627.0	626.6			
16-Aug-02	626.0	620 6	627.0	624.3	627 3	628.3	627.8	626.1	627.0	626.9	626.6			
23-Aug-02	626 0	620 6	627.1	624 1	627 2	628.2	627.8	626.1	627.0	626.9	626.6			
30-Aug-02	626.0	620.5	627.0	624.3	627.2	628.2	627.7	625.9	626.9	626.7	626.5			
6-Sep-02	626.0	620.6	626.9	624.3	627.2	628.1	627.5	625.9	626 7	626.7	626.4			
13-Sep-02	626.0	620.6	627.2	625 3	627.2	628.1	627 8	626.0	626 6	626.6	626.4			
20-Sep-02	626.0	620.5	626 7	624.3	627.0	628.1	627.5	625.8	626.6	626.5	626 3			
27-Sep-02	626.0	620.5	626.8	624.3	627 0	627.9	627.4	625.8	626.5	626.5	626 3			

NA = Not sampled

All water level elevations are in feet AMSL.





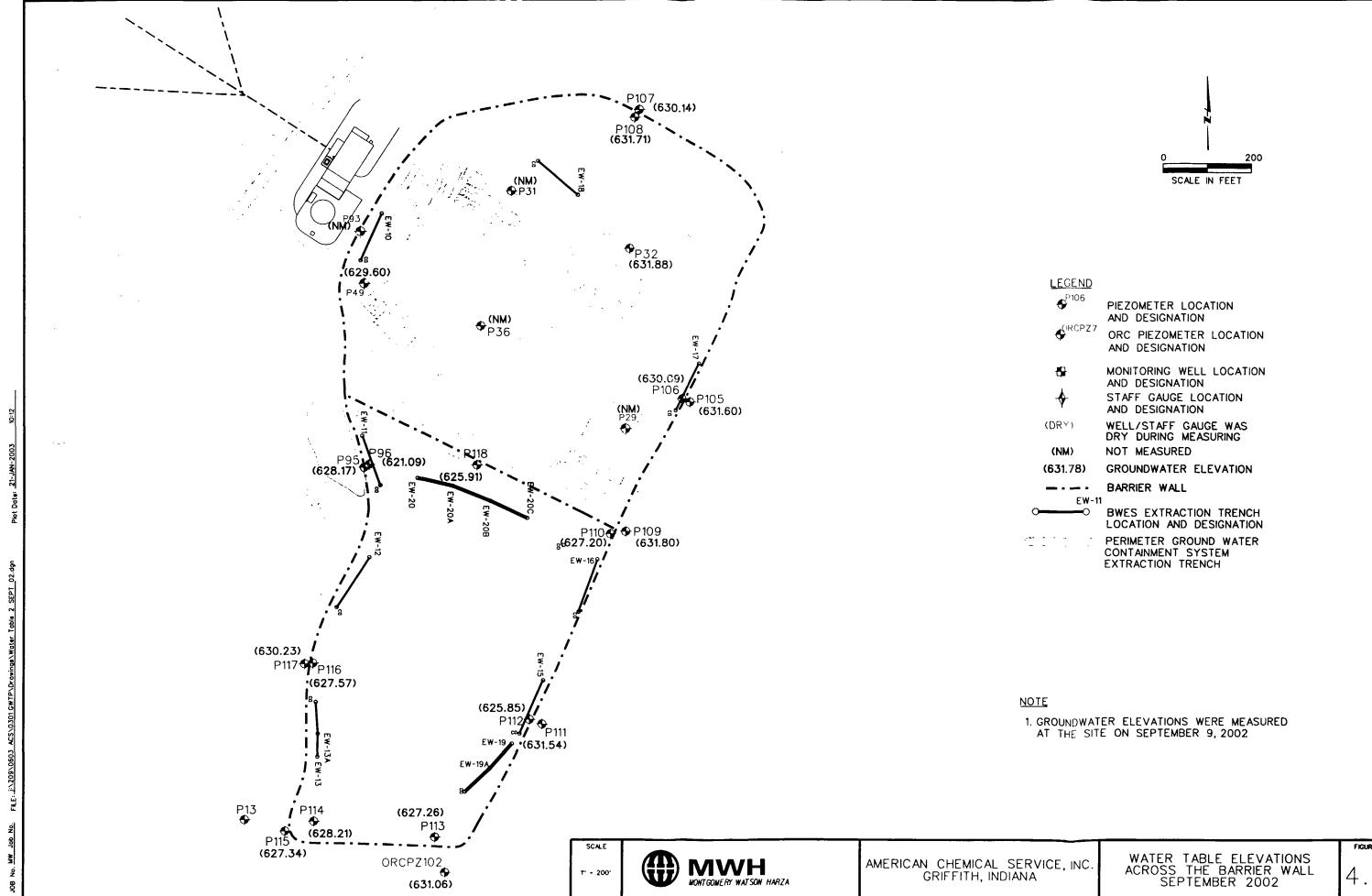
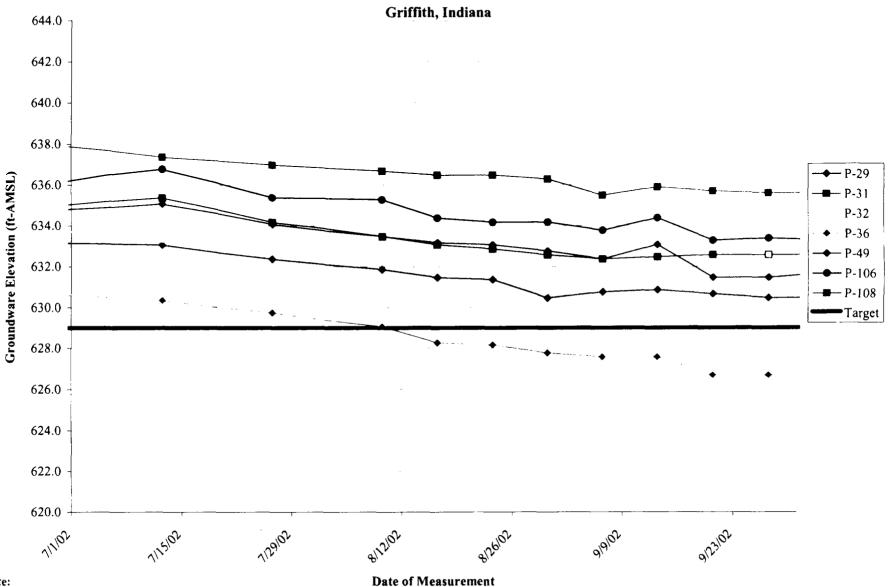


Figure 4.3
Water Level Trends Inside Barrier Wall (On-Site Area)
ACS NPL Site



Note: Hollow points represent dry piezometers (data used for graphing purposes only).

TMK/RHS 1:/209/0603/0301/6030301a023.xls/On-Site Chart for Report

Figure 4.4
Water Level Trends Inside Barrier Wall (Off-Site Area)
Groundwater Monitoring
ACS NPL Site

**→** P-96

--- P-110

P-112

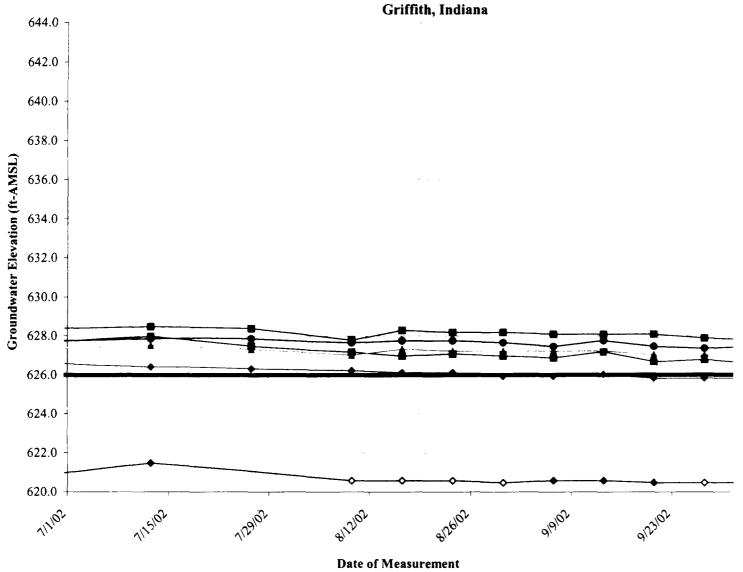
**★**: = P-113

—<del>■</del>— P-114

**─** P-116

— **P-118** 

■Target





Hollow points represent dry piezometers (data used for graphing purposes only).

TMK/RHS J:/209/0603/0301/6030301a023.xls/Off-Site Chart for Report

# APPENDIX A EFFLUENT ANALYTICAL DATA

### August 8, 2002 Compliance Sample Laboratory Results

#### 1-CC

### CLASSICAL CHEMISTRY ANALYSES DATA SHEET

					EPA SAMPLE NO.
				Γ	EFFLUENT
b Name: Co	ompuChem	Contract:		L	<del></del>
Code: Ll	IBRTY	Case No.:		NRAS	S No.:
3 No.: R	11024				
rix (soil,	/water): WATER		Lab Samp	ole II	): RI1024-1
	d: 8/9/02	<del></del>	% Solids	s: 0.	00
e Necetyo				_	<del></del>
	Concentration Units	s (mg/L or mg/kg dry wei	.ght):	PH	units
	PARAMETER	CONCENTRATION		м	DATE ANALYZED
	PH	7.51	<del>-   <u>-                                  </u></del>	<del>-M  </del>	8/13/02
	TSS		<del>u                                     </del>		8/15/02
				La Ca	
Comments:					

SW-846

#### ENVIRONMENTAL ANALYTICAL SERVICES

FINAL REPORT OF ANALYSES

COMPUCHEM Attn: DIANE BYRD 501 MADISON AVENUE CARY, NC 27513-

**REPORT DATE: 08/26/02** 

SAMPLE NUMBER- 199437 SAMPLE ID- EFFLUENT

SAMPLE MATRIX- WW TIME SAMPLED- 1400

DATE SAMPLED- 08/08/02

DATE RECEIVED- 08/09/02 SAMPLER- NOT SPECIFIED

RECEIVED BY- ALT

TIME RECEIVED- 1240 DELIVERED BY- CHRIS BRAND

Page 1 of 1

PROJECT NAME :

ANALYSIS

ANALYSIS

METHOD

DATE

BY RESULT UNITS

PQL

BIOCHEMICAL OXYGEN DEMAND EPA 405.1 08/09/02 RCB

<2 mg/L

2

PQL = Practical Quantitation Limit

Results followed by the letter J are estimated concentrations.

NC DENR CERTIFICATIONS: DWQ - 96; PUBLIC WATER SUPPLY - 37724

LABORATORY DIRECTOR

+911V

### INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EFFLUENT

a Name:	COMPUCE	KEM	Contr	:act:						
ab Code:	LIBRTY	Case N	o.: SA	AS No.:		SDG	Νο.:	RI102	24	_
k rix (so	il/wate	r): WATER		Lab Sample I	D:	RI10	24-1			
evel (low	/med):	LOW		Date Receive	d:	8/9/	02			
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	0.0	_						•		
		Concent	ration Units (ug/	L or mg/kg dry	wei	ght):	UG/I	<u>.</u>		
		CAS No.	Analyte	Concentration	C	Q	м	}		
		CAS NO.								
		7429-90-5	Aluminum	105	I		P	<u> </u>		
		7440-38-2	Arsenic	3.2	B	<u> </u>	P	1		
		7440-39-3	Barium	87.6	<u> </u>	<u> </u>	P	1		
		7440-36-0	Antimony	1.6	טן	<u> </u>	P	<u> </u>		
		7440-41-7	Beryllium	0.20	U		P	j		
		7440-43-9	Cadmium	0.20	U	1	P	!		
		7440-70-2	Calcium	77500		l	P	<u> </u>		
		7440-47-3	Chromium	2.8	B	l	P	j .		
		7440-48-4	Cobalt	2.0	В	<b> </b>	P	IU		
		7440-50-8	Copper	5.6	1		P	j		
		7439-89-6	Iron	8.7	ט		P	j		
		7439-92-1	Lead	1.1	В		P	İ		
		7439-95-4	Magnesium	26400	1		P	ĺ		
		7439-96-5	Manganese	5.8	B		P	İ		
		7439-97-6	Mercury	0.64	טן	j	CV	ļ		
		7440-02-0	Nickel	35.3	1		P	Ì		
		7440-09-7	Potassium	15000	1	1	P	ĺ		
		7782-49-2	Selenium	2.9	U		P	İ		
		7440-22-4	Silver	0.70	Ū		[ P	ĺ		
		7440-23-5	Sodium	312000	T		P	ĺ		
		7440-28-0	Thallium	2.6	Ū		P	į		
		7440-62-2	Vanadium	1.6	B		P	iu		
		7440-66-6	Zinc	0.70	ับ		P	ĺ		
		<u></u>	<del></del>	<del></del>	<u></u>		<u></u>	:		
										,
									<b>1</b> 9111	
									$(1/1)^{-1}$	
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Color Be	fore: CC	DLORLESS	Clarity Before:	CLEAR	T	extur	e: -			
Color Af	ter: C	DIORLESS	Clarity After:	CLEAR	A	rtifa	cts:			
Comments	:									
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					· .,				- 8	

#### FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

**EFFLUENT** Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: RI1024 Matrix: (soil/water) WATER Lab Sample ID: RI1024-1 Sample wt/vol: 25 (g/ml) ML Lab File ID: RI1024-1A61 Date Received: 08/09/02 Level: (low/med) LOW % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/14/02 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(u

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 74-87-3-----Chloromethane 0.5 U 75-01-4-----Vinyl Chloride 0.5 U 0.5 UUJ 74-83-9-----Bromomethane 75-00-3-----Chloroethane 0.5 U 75-35-4-----1,1-Dichloroethene\_\_\_\_ 0.5 U 75-15-0-----Carbon disulfide 0.5 U 2 JB & NBJ 67-64-1-----Acetone 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 0.5 ] 0 75-34-3----1,1-Dichloroethane 0.5 U 156-59-2----cis-1,2-Dichloroethene\_\_\_ 0.5 U JUUJ 78-93-3----2-butanone 0.5 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane\_\_\_\_ 0.5 U 0.5 U 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 0.5 U 107-06-2----1,2-Dichloroethane\_\_\_\_ 0.5 U 0.5 U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 0.5 U 0.5 75-27-4-----Bromodichloromethane U 0.5 U 10061-01-5----cis-1,3-Dichloropropene\_ 3 | Ū W 108-10-1-----4-Methyl-2-pentanone 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene\_\_\_ 0.2 JB 仏体 0.5 U 0.5 U 79-00-5----1,1,2-Trichloroethane 127-18-4-----Tetrachloroethene 0.5 U 591-78-6----2-hexanone JUUJ 124-48-1-----Dibromochloromethane 0.5 U 108-90-7-----Chlorobenzene\_\_\_\_ 0.5 U 100-41-4-----Ethylbenzene 0.5 U 108-38-3----m,p-Xylene\_\_\_\_ 1 | U 95-47-6----o-Xylene\_\_\_\_ 0.5 U 100-42-5-----Styrene 0.5 U

FORM I VOA

12 AUN 12

#### FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMETE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B SDG No.: RI1024 Lab Code: LIBRTY Case No.: SAS No.: Matrix: (soil/water) WATER Lab Sample ID: RI1024-1 Sample wt/vol: 25 (q/ml) ML Lab File ID: RI1024-1A61 Level: (low/med) LOW Date Received: 08/09/02 % Moisture: not dec. Date Analyzed: 08/14/02 Dilution Factor: 1.0 GC Column: RTX-VMS ID: 0.18 (mm) Soil Extract Volume: (uL) Soil Aliquot Volume: (uI CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 0 75-25-2-----Bromoform 0.5 U 79-34-5-----1,1,2,2-Tetrachloroethane 0.5 U 541-73-1----1,3-Dichlorobenzene 0.5 U 106-46-7-----1,4-Dichlorobenzene\_95-50-1-----1,2-Dichlorobenzene\_ 0.5 U 0.5 U 120-82-1----1,2,4-Trichlorobenzene U 540-59-0-----1,2-Dichloroethene (total) 0.5 U 1330-20-7-----Xylene (total)\_

FORM I VOA

<sub>u</sub>q\\(\square\)13

CLIENT SAMPLE NO.

ab Name: COMPUCHEM Method: 8270C EFFLUENT

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: RI1024

Tatrix: (soil/water) WATER Lab Sample ID: RI1024-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: RI1024-1B66

evel: (low/med) LOW Date Received: 08/09/02

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:08/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/15/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

 111-44-4------Bis (2-chloroethyl) ether
 9.6
 U

 106-44-5------4-Methylphenol
 10
 U

 78-59-1------Isophorone
 10
 U

 117-81-7-----bis (2-ethylhexyl) Phthalate
 0.76
 J

FORM I SV

8270C

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET CLIENT SAMPLE NO.

EFFLUENT

Lab Name:	COMPUCHEM
-----------	-----------

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: RI1024

Matrix: (soil/water) WATER

Lab Sample ID: RI1024-1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: RI1024-1A64

Level: (low/med) LOW

Date Received: 08/09/02

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_

Date Extracted:08/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 08/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

0

87-86-5-----Pentachlorophenol

1

U

FORM I SV

EFFLUENT

Lab Name: COMPUCHEM	Contract	:			
Lab Code: LIBRTY	Case No.: SAS No.	: SDG No.: RI1024			
Matrix: (soil/water)	WATER	Lab Sample ID: RI1024-1			
Sample wt/vol:	1000 (g/mL) ML	Lab File ID:			
% Moisture:	decanted: (Y/N)	Date Received: 08/09/02			
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:08/10/02					
Concentrated Extract	Volume: 5000(uL)	Date Analyzed: 08/12/02			
Injection Volume:	2.0 (uL)	Dilution Factor: 1.0			
GPC Cleanup: (Y/N)	N pH:	Sulfur Cleanup: (Y/N) Y			
CAS NO.		NTRATION UNITS: or ug/Kg) UG/L Q			
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	0.50 U 1.0 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U			

alla

August 29, 2002 Compliance Sample Laboratory Results

#### SW-846

#### 1-CC

### CLASSICAL CHEMISTRY ANALYSES DATA SHEET

EPA SAMPLE NO.

] b Name:	CampuCham			0				EFFI	UENT
1 D Name:	CompuChem			Contract:				<del></del>	
Lab Code:	LIBRTY Cas			No.:	:NRAS No.:				
f G No.:	RL1024	_							
Matrix (so:	il/water):	WATER			La	b Sam	ple I	D: RL1024-1	
I te Recei	ved: 8/30/0	2			*	Solid	s: 0	. 00	
	Concen	tration Uni	its (mg/	L or mg/kg dry	weight	t):	рН	units	
	PARAMETE	R		CONCENTRATION	С	Ω	м	DATE ANALYZED	
	Hq			7.39				8/30/02	ľ

10/9/5

Comments:		
		<b>9</b>

#### FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

ab Name: COMPUCHEM

Sample wt/vol:

CLIENT SAMPLE NO.

EFFLUENT

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: RL1024

Method: 8260B

fatrix: (soil/water) WATER Lab Sample ID: RL1024-1

25 (g/ml) ML Lab File ID: RL1024-1B62

\_evel: (low/med) LOW Date Received: 08/30/02

% Moisture: not dec. Date Analyzed: 09/11/02

JC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

3oil Extract Volume:\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uI

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 74-87-3-----Chloromethane 0.4 J 75-01-4-----Vinyl Chloride 0.5 U 0.5 U 0.5 U 0.5 U 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-35-4-----1,1-Dichloroethene 0.5 U 75-15-0-----Carbon disulfide 3 B UBJ 67-64-1-----Acetone

75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 0.5 U 75-34-3-----1,1-Dichloroethane 0.5 U 156-59-2----cis-1,2-Dichloroethene 0.5 U 78-93-3----2-butanone 3 U 67-66-3-----Chloroform 0.5 U 71-55-6-----1,1,1-Trichloroethane 0.5 U 56-23-5-----Carbon Tetrachloride 0.5 U 71-43-2----Benzene 0.5 0

107-06-2----1,2-Dichloroethane 0.5 U 79-01-6-----Trichloroethene 0.5 U 78-87-5-----1,2-Dichloropropane 0.5 U 0.5 U 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 0.5 U

108-10-1-----4-Methyl-2-pentanone

108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane

127-18-4-----Tetrachloroethene 591-78-6----2-hexanone

124-48-1-----Dibromochloromethane

108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene

108-38-3----m, p-Xylene

95-47-6----o-Xylene 100-42-5-----Styrene

FORM I VOA

3 U

3 I U 0.5 U

0.5 U 0.5 U 0.5 U

0.5 U

0.5 U

0.5 U

1 | U 0.5 U

0.3 JB 0.5 KB

#### FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

1330-20-7-----Xylene (total)

CLIENT SAMPLE NO.

0.5 U

0.5 U

**EFFLUENT** Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: RL1024 fatrix: (soil/water) WATER Lab Sample ID: RL1024-1 Lab File ID: RL1024-1B62 Sample wt/vol: 25 (q/ml) ML Level: (low/med) LOW Date Received: 08/30/02 % Moisture: not dec. Date Analyzed: 09/11/02 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume:\_\_\_\_(uL) Soil Aliquot Volume: (ul CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L CAS NO. 0 75-25-2-----Bromoform 0.5 U 79-34-5----1,1,2,2-Tetrachloroethane\_ 0.5 ប 541-73-1----1,3-Dichlorobenzene 0.5 U 106-46-7----1,4-Dichlorobenzene 0.5 U 95-50-1----1,2-Dichlorobenzene 0.5 U 120-82-1-----1,2,4-Trichlorobenzene 540-59-0-----1,2-Dichloroethene (total) 0.5 U

### September 26, 2002 Compliance Sample Laboratory Results

### SW-846

#### 1-CC

### CLASSICAL CHEMISTRY ANALYSES DATA SHEET

EPA SAMPLE NO.

L o Name:	CompuChem		Contra	act:				EFF	LUENT
	LIBRTY		Case No.:				NRA	S No.:	
S 3 No.:	RM1024		_						
Matrix (soi	ll/water):	WATER			La	b Sam	ple I	D: RM1024-	1
D te Receiv	red: 9/27/02	<u> </u>			8	Solid	s: 0.	.00	
	Concent	ration Units	(mg/L or mg/	kg dry w	veight	<b>:)</b> :	рН	units	
	PARAMETER	<b>t</b>	CONCENTI	RATION	С	Q	м	DATE ANALYZED	
	рН		1	7.40				9/27/02	<b>-</b>

10/20/00

Comments:	

4249A

# FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM Method: 8260B EFFLUENT

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: RM1024

Matrix: (soil/water) WATER Lab Sample ID: RM1024-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: RM1024-1A61

Level: (low/med) LOW Date Received: 09/27/02

& Moisture: not dec.Date Analyzed: 10/02/02

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 0.5 U 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 0.5 U 74-83-9-----Bromomethane 0.5 0 75-00-3-----Chloroethane 0.5 U 75-35-4-----1,1-Dichloroethene 0.5 U 75-15-0-----Carbon disulfide 0.5 U 67-64-1-----Acetone 2 | JB 75-09-2-----Methylene Chloride 2 B uBJ156-60-5-----trans-1,2-Dichloroethene\_75-34-3-----1,1-Dichloroethane 0.5 U 0.5 U 0.5 U 156-59-2----cis-1,2-Dichloroethene 78-93-3----2-butanone 3 U 0.5 U 67-66-3-----Chloroform 0.5 U 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 0.5 U 0.5 U 0.5 U 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 0.1 J 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 0.5 U 0.5 U 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 0.5 U 108-10-1----4-Methyl-2-pentanone 3 U 0.4 JB 0.5 UB 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 0.5 U 79-00-5-----1,1,2-Trichloroethane 0.5 U 0.09 J 127-18-4-----Tetrachloroethene 591-78-6----2-hexanone 3 | U 124-48-1-----Dibromochloromethane 0.5 U 0.5 U 108-90-7-----Chlorobenzene 0.5 U 100-41-4-----Ethylbenzene\_ 0.1 J 108-38-3-----m,p-Xylene\_\_\_\_ 0.5 U 95-47-6----o-Xylene 100-42-5-----Styrene 0.5 U

FORM I VOA

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# FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

**EFFLUENT** Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: RM1024 Lab Sample ID: RM1024-1 Matrix: (soil/water) WATER 25 (q/ml) ML Lab File ID: RM1024-1A61 Sample wt/vol: Date Received: 09/27/02 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 10/02/02 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: \_\_\_\_\_(1 CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) UG/L COMPOUND

 CAS NO.
 COMPOUND
 (ug/L or ug/Kg) UG/L
 Q

 75-25-2------Bromoform
 0.5 U

 79-34-5-----1,1,2,2-Tetrachloroethane
 0.5 U

 541-73-1-----1,3-Dichlorobenzene
 0.5 U

 106-46-7-----1,4-Dichlorobenzene
 0.5 U

 95-50-1-----1,2-Dichlorobenzene
 0.5 U

 120-82-1-----1,2,4-Trichlorobenzene
 0.5 U

 540-59-0-----1,2-Dichloroethene (total)
 0.5 U

 1330-20-7------Xylene (total)
 0.1 J

FORM I VOA

1,0/24/07

# APPENDIX B CATALYTIC OXIDIZER OFF-GAS ANALYTICAL DATA

July 2, 2002 Off-Gas Sample (Round 5)
Laboratory Results

#### SAMPLE NAME: ACS-ME106-EF1-005A

#### ID#: 0207099A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

Total Degra			State of Scottend	(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Profesions	4 - 8 4		Experiency very plant	ay in a graph of
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	2.8	5.8	67	140
Vinyl Chloride	2.8	7.2	160	410
Bromomethane	2.8	11	Not Detected	Not Detected
Chloroethane	2.8	7.4	85	230
1,1-Dichloroethene	2.8	11	10	42
Methylene Chloride	2.8	9.8	50	180
1,1-Dichloroethane	2.8	11	20	81
cis-1,2-Dichloroethene	2.8	11	320	1300
Chloroform	2.8	14	0.64 J	3.2 J
1,1,1-Trichloroethane	2.8	15	5.7	32
Carbon Tetrachloride	2.8	18	Not Detected	Not Detected
Benzene	2.8	9.0	690	2200
1,2-Dichloroethane	2.8	11	Not Detected	Not Detected
Trichloroethene	2.8	15	2.4 J	13 J
1,2-Dichloropropane	2.8	13	2.2 J	10 J
cis-1,3-Dichloropropene	2.8	13	Not Detected	Not Detected
Toluene	2.8	11	310	1200
trans-1,3-Dichloropropene	2.8	13	Not Detected	Not Detected
1,1,2-Trichloroethane	2.8	15	0.93 J /J_	5.2 J
Tetrachloroethene	2.8	19	1.8 J / J	12 J
Chlorobenzene	2.8	13	21	98
Ethyl Benzene	2.8	12	28	120
m,p-Xylene	2.8	12	160	700
o-Xylene	2.8	12	54	240
Styrene	2.8	12	15	66
1,1,2,2-Tetrachloroethane	2.8	19	0.74 J J	5.1 J
Acetone	11	27	72	170
Carbon Disulfide	11	35	2.4 J /J	7.7 J
trans-1,2-Dichloroethene	11	45	15	62
2-Butanone (Methyl Ethyl Ketone)	11	33	30	90
Bromodichloromethane	11	76	Not Detected	Not Detected
4-Methyl-2-pentanone	11	46	10 J	44 J
2-Hexanone	11	46	Not Detected	Not Detected
Dibromochloromethane	11	96	Not Detected	Not Detected
Bromoform	11	120	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	106	70-130

UH 8|29|02

#### SAMPLE NAME: ACS-ME106-EF1-005A

ID#: 0207099A-01A

### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

M. Ohin	A Printers	Physical Caller office Caller
att thems	1. <b>351.</b>	Carin or Springpasses and artis
		Method
Surrogates	%Recovery	Limits
4-Bromofluorobenzene	102	70-130



### SAMPLE NAME: ACS-ME106-IN1-005A

ID#: 0207099A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

the Marks	400 - 24g 🚧		wan a militera a raray.			
440° 17 (1400°)	Special C		Aberter Angespellige	S. West)		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Chloromethane	27	 56	Not Detected	Not Detected		
Vinyl Chloride	27	70	2200	5800		
Bromomethane	27	100	Not Detected	Not Detected		
Chloroethane	27	72	1200	3100		
1,1-Dichloroethene	27	110	14 J 15	58 J		
Methylene Chloride	27	95	290	1000		
1,1-Dichloroethane	27	110	340	1400		
cis-1,2-Dichloroethene	27	110	3900	16000		
Chloroform	27	130	5.6 J 15	28 J		
1,1,1-Trichloroethane	27	150	160	910		
Carbon Tetrachloride	27	170	Not Detected	Not Detected		
Benzene	27	87	7000	23000		
1,2-Dichloroethane	27	110	Not Detected	Not Detected		
Trichloroethene	27	<b>1</b> 50	32	180		
1,2-Dichloropropane	27	120	40	190		
cis-1,3-Dichloropropene	27	120	Not Detected	Not Detected		
Toluene	27	100	4100	16000		
trans-1,3-Dichloropropene	27	120	Not Detected	Not Detected		
1,1,2-Trichloroethane	27	150	7.1 J	40 J		
Tetrachloroethene	27	180	16J /J	110 J		
Chlorobenzene	27	120	240	1100		
Ethyl Benzene	27	120	700	3100		
m,p-Xylene	27	120	3400	15000		
o-Xylene	27	120	1100	4800		
Styrene	27	120	36	160		
1,1,2,2-Tetrachioroethane	27	190	Not Detected	Not Detected		
Acetone	110	260	500	1200		
Carbon Disulfide	110	340	Not Detected	Not Detected		
trans-1,2-Dichloroethene	110	430	Not Detected	Not Detected		
2-Butanone (Methyl Ethyl Ketone)	110	320	32 J /	95 J		
Bromodichloromethane	110	730	Not Detected	Not Detected		
4-Methyl-2-pentanone	110	450	200	850		
2-Hexanone	110	450	Not Detected	Not Detected		
Dibromochloromethane	110	930	Not Detected	Not Detected		
Bromoform	110	1100	Not Detected	Not Detected		

J = Estimated value.

Container Type: 6 Liter Summa Canister

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	104	70-130	

C# 8/29/02

#### SAMPLE NAME: ACS-ME106-IN1-005A

ID#: 0207099A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

*1 Sidy	41 24		State of Bullion Cars. Policy
200 - 1 - 1004	<b>.</b> 74 **		Com Complies of the
			Method
Surrogates		%Recovery	Limits
4-Bromofluorobenzene		94	70-130

### SAMPLE NAME: ACS-ME106-IN2-005A

ID#: 0207099A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

\$18 - 25 miles	or a second to the contract of the second to		itere emiljer.	
P(3 - 24 ) (6)			this general and interesting to	(4.5 · 100 · 100)
Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	34	70	Not Detected	Not Detected
Vinyl Chloride	34	87	2700	7000
Bromomethane	34	130	Not Detected	Not Detected
Chloroethane	34	90	1400	3800
1,1-Dichloroethene	34	140_	16 J 15	62 J
Methylene Chloride	34	120	440	1500
1,1-Dichloroethane	34	140	510	2100
cis-1,2-Dichloroethene	34	140	5000	20000
Chloroform	34	170	7.0J ば	35 J
1,1,1-Trichloroethane	34	180	240	1300
Carbon Tetrachloride	34	210	Not Detected	Not Detected
Benzene	34	110	9300	30000
1,2-Dichloroethane	34	140	Not Detected	Not Detected
Trichloroethene	34	180	51	280
1,2-Dichloropropane	34	160	42	200
cis-1,3-Dichloropropene	34	150	Not Detected	Not Detected
Toluene	34	130	5400	20000
trans-1,3-Dichloropropene	34	150	Not Detected	Not Detected
1,1,2-Trichloroethane	34	180	8.1 J	45 J
Tetrachloroethene	34	230	23 J	160 J
Chlorobenzene	34	160	330	1600
Ethyl Benzene	34	150	960	4200
m,p-Xylene	34	150	5000	22000
o-Xylene	34	150	1400	6300
Styrene	34	140	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	34	230	Not Detected	Not Detected
Acetone	130	320	380	930
Carbon Disulfide	130	420	Not Detected	Not Detected
trans-1,2-Dichloroethene	130	540	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130	400	31 J / J	94 J
Bromodichloromethane	130	910	Not Detected	Not Detected
4-Methyl-2-pentanone	130	560	150	630
2-Hexanone	130	560	Not Detected	Not Detected
Dibromochloromethane	130	1200	Not Detected	Not Detected
Bromoform	130	1400	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	104	70-130



### SAMPLE NAME: ACS-ME106-IN2-005A

ID#: 0207099A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

क्षा अभिनेत्र विभिन्न समित्र	1 4 5 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	t and his traditional points
(III) Same.	- 4g - 4	From Azzardosia Como
		Method
Surrogates	%Rec	overy Limits
4-Bromofluorobenzene	9	6 70-130

UA 8/29/02

#### SAMPLE NAME: ACS-ME106-EF1-005A

ID#: 0207099B-01A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

THE CHAIN	:K0/04049	•, •	Processidenthiques (200
Fall of the s	<ul> <li>(*)</li> </ul>		Spring to the Market of the Artist
			Existence of Madeila Replaces of States
		Rpt. Limit	Amount
Compound		(ug)	(ug)
Phenol		5.0	Not Detected
bis(2-Chloroethyl) Ether		1.0	Not Detected
2-Chlorophenol		5.0	Not Detected
1,3-Dichlorobenzene		1.0	Not Detected
1,4-Dichlorobenzene		1.0	Not Detected
1,2-Dichlorobenzene		1.0	Not Detected
2-Methylphenol (o-Cresol)		5.0	Not Detected
N-Nitroso-di-n-propylamine		1.0	Not Detected
4-Methylphenol		5.0	Not Detected
Hexachloroethane		1.0	Not Detected
Nitrobenzene		1.0	Not Detected
sophorone		1.0	Not Detected
2-Nitrophenol		5.0	Not Detected
2,4-Dimethylphenol		5.0	Not Detected
ois(2-Chloroethoxy) Methane		1.0	Not Detected
2,4-Dichlorophenol	***************************************	5.0	Not Detected
,2,4-Trichlorobenzene		1.0	Not Detected
Naphthalene		1.0	Not Detected
I-Chloroaniline		10	Not Detected
Hexachlorobutadiene		1.0	Not Detected
l-Chloro-3-methylphenol		5.0	Not Detected
2-Methylnaphthalene		1.0	Not Detected
Hexachlorocyclopentadiene		20	Not Detected
2,4,6-Trichlorophenol		5.0	Not Detected
2,4,5-Trichlorophenol		5.0	Not Detected
2-Chloronaphthalene		1.0	Not Detected
2-Nitroaniline		10	Not Detected
Dimethylphthalate		5.0	Not Detected
Acenaphthylene		1.0	Not Detected
2,6-Dinitrotoluene		5.0	Not Detected
3-Nitroaniline		10	Not Detected
Acenaphthene		1.0	Not Detected
2,4-Dinitrophenol		20	Not Detected
-Nitrophenol		20	Not Detected
,4-Dinitrotoluene		5.0	Not Detected
)ibenzofuran		1.0	Not Detected
		5.0	Not Detected Not Detected
Diethylphthalate		1.0	Not Detected Not Detected
fluorene		1.0	Not Detected Not Detected
-Chlorophenyl-phenyl Ether			
I-Nitroaniline I,6-Dinitro-2-methylphenol		10 10	Not Detected Not Detected

#### SAMPLE NAME: ACS-ME106-EF1-005A

ID#: 0207099B-01A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

774. 28 gg	2000 (v) (40)		कोवांतरक विकास समिति । १ को ताल
	< 500		Marie of Millingth of their
			Bereit bir im bei ber bei ber ber ber ber ber ber ber ber ber ber
		Rpt. Limit	Amount
Compound		(ug)	(ug)
N-Nitrosodiphenylamine		10	Not Detected
4-Bromophenyl-phenyl Ether		1.0	Not Detected
Hexachlorobenzene		1.0	Not Detected
Pentachlorophenol		20	Not Detected
Phenanthrene		1.0	Not Detected
Anthracene		1.0	Not Detected
di-n-Butylphthalate		5.0	Not Detected
Fluoranthene		1.0	Not Detected
Pyrene		1.0	Not Detected
Butylbenzylphthalate		5.0	Not Detected
3,3'-Dichlorobenzidine		20	Not Detected
Chrysene		1.0	Not Detected
Benzo(a)anthracene		1.0	Not Detected
bis(2-Ethylhexyl)phthalate		5.0	Not Detected
Di-n-Octylphthalate		5.0	Not Detected
Benzo(b)fluoranthene		1.0	Not Detected
Benzo(k)fluoranthene		1.0	Not Detected
Benzo(a)pyrene		1.0	Not Detected
ndeno(1,2,3-c,d)pyrene		1.0	Not Detected
Dibenz(a,h)anthracene		1.0	Not Detected
Benzo(g,h,i)perylene		1.0	Not Detected

Q = Exceeds Quality Control limits.

Container Type: XAD Tube: VOST

<b>7.</b>		Method	
Surrogates	%Recovery	Limits	
2-Fluorophenol	70	50-150	
Phenol-d5	62	50-150	
Nitrobenzene-d5	53	50-150	
2-Fluorobiphenyl	55 Q	60-120	
2,4,6-Tribromophenol	72	50-150	
Terphenyl-d14	60	60-120	



#### SAMPLE NAME: ACS-ME106-IN1-005A

ID#: 0207099B-02A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

the American	Set Calife		White of Contropler 27/20
Office provides	<b>,1</b> 21		Record And Englished Add 12 Mg
			conservation and brother the
		Rpt. Limit	Amount
Compound		(ug)	(ug)
Phenol		5.0	Not Detected
bis(2-Chloroethyl) Ether		1.0	0.72 J /
2-Chlorophenol		5.0	Not Detected
1,3-Dichlorobenzene		1.0	0.49 J <i>1</i>
1,4-Dichlorobenzene		1.0	5.6
1,2-Dichlorobenzene		1.0	9.9
2-Methylphenol (o-Cresol)		5.0	Not Detected
N-Nitroso-di-n-propylamine		1.0	Not Detected
4-Methylphenol		5.0	Not Detected
Hexachloroethane		1.0	Not Detected
Nitrobenzene		1.0	Not Detected
Isophorone		1.0	Not Detected
2-Nitrophenol		5.0	Not Detected
2,4-Dimethylphenol		5.0	Not Detected
bis(2-Chloroethoxy) Methane		1.0	Not Detected
2,4-Dichlorophenol		5.0	Not Detected
1,2,4-Trichlorobenzene		1.0	1.3
Naphthalene		1.0	1.6
4-Chloroaniline		10	Not Detected
Hexachlorobutadiene		1.0	Not Detected
4-Chloro-3-methylphenol		5.0	Not Detected
2-Methylnaphthalene		1.0	1.2
Hexachlorocyclopentadiene		20	Not Detected
2,4,6-Trichlorophenol		5.0	Not Detected
2,4,5-Trichlorophenol		5.0	Not Detected
2-Chloronaphthalene		1.0	Not Detected
2-Nitroaniline		10	Not Detected
Dimethylphthalate		5.0	Not Detected
Acenaphthylene		1.0	Not Detected
2,6-Dinitrotoluene		5.0	Not Detected
3-Nitroaniline		10	Not Detected
Acenaphthene		1.0	Not Detected
2,4-Dinitrophenol		20	Not Detected
4-Nitrophenol		20	Not Detected
2,4-Dinitrotoluene		5.0	Not Detected
Dibenzofuran		1.0	Not Detected
Diethylphthalate		5.0	Not Detected
Fluorene		1.0	Not Detected
4-Chlorophenyl-phenyl Ether		1.0	Not Detected
4-Nitroaniline		10	Not Detected
4,6-Dinitro-2-methylphenol		10	Not Detected



#### SAMPLE NAME: ACS-ME106-IN1-005A

ID#: 0207099B-02A

### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

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1911 - 17.000	,1-1	Space of the highest than	
			*phospharigaterosa Mario
		Rpt. Limit	Amount
Compound		(ug)	(ug)
N-Nitrosodiphenylamine		10	Not Detected
4-Bromophenyl-phenyl Ether		1.0	Not Detected
Hexachlorobenzene		1.0	Not Detected
Pentachlorophenol		20	Not Detected
Phenanthrene		1.0	Not Detected
Anthracene		1.0	Not Detected
di-n-Butylphthalate		5.0	0.79 J
Fluoranthene		1.0	Not Detected
Pyrene		1.0	Not Detected
Butylbenzylphthalate		5.0	Not Detected
3,3'-Dichlorobenzidine		20	Not Detected
Chrysene		1.0	Not Detected
Benzo(a)anthracene		1.0	Not Detected
bis(2-Ethylhexyl)phthalate		5.0	Not Detected
Di-n-Octylphthalate		5.0	Not Detected
Benzo(b)fluoranthene		1.0	Not Detected
Benzo(k)fluoranthene		1.0	Not Detected
Benzo(a)pyrene		1.0	Not Detected
Indeno(1,2,3-c,d)pyrene		1.0	Not Detected
Dibenz(a,h)anthracene		1.0	Not Detected
Benzo(g,h,i)perylene		1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

<i>"</i>		Method	
Surrogates	%Recovery	Limits	
2-Fluorophenol	48 Q	50-150	
Phenol-d5	63	50-150	
Nitrobenzene-d5	61	50-150	
2-Fluorobiphenyl	64	60-120	
2,4,6-Tribromophenol	58	50-150	
Terphenyl-d14	72	60-120	

#### SAMPLE NAME: ACS-ME106-IN2-005A

ID#: 0207099B-03A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

त्याम श्रीकात -	i(0Y(0))i		(\$). (Common of the control of the c
78.01 (E.E. (1974)	. a))		Decade in a company of the control
			tega o eganerada da dala
		Rpt. Limit	Amount
Compound		(ug)	(ug)
Phenol		5.0	Not Detected
bis(2-Chloroethyl) Ether		1.0	0.97 J <i>[</i> [3
2-Chlorophenol		5.0	Not Detected
1,3-Dichlorobenzene		1.0	1.1
1,4-Dichlorobenzene		1.0	12
1,2-Dichlorobenzene		1.0	18
2-Methylphenol (o-Cresol)		5.0	Not Detected
N-Nitroso-di-n-propylamine		1.0	Not Detected
4-Methylphenol		5.0	Not Detected
Hexachloroethane		1.0	Not Detected
Nitrobenzene		1.0	Not Detected
Isophorone		1.0	Not Detected
2-Nitrophenol		5.0	Not Detected
2,4-Dimethylphenol		5.0	Not Detected
bis(2-Chloroethoxy) Methane		1.0	Not Detected
2,4-Dichlorophenol		5.0	Not Detected
1,2,4-Trichlorobenzene		1.0	2.3
Naphthalene		1.0	3.4
4-Chloroaniline		10	Not Detected
Hexachlorobutadiene		1.0	Not Detected
4-Chloro-3-methylphenol	••••••	5.0	Not Detected
2-Methylnaphthalene		1.0	1.9
Hexachlorocyclopentadiene		20	Not Detected
2,4,6-Trichlorophenol		5.0	Not Detected
2,4,5-Trichlorophenol		5.0	Not Detected
2-Chloronaphthalene		1.0	Not Detected
2-Nitroaniline		10	Not Detected
		5.0	Not Detected
Dimethylphthalate		1.0	Not Detected
Acenaphthylene		5.0	Not Detected
2,6-Dinitrotoluene		10	Not Detected
3-Nitroaniline		1.0	Not Detected
Acenaphthene		20	Not Detected
2,4-Dinitrophenol			
4-Nitrophenol		20	Not Detected
2,4-Dinitrotoluene		5.0	Not Detected
Dibenzofuran		1.0	Not Detected
Diethylphthalate		5.0	Not Detected
Fluorene		1.0	Not Detected
4-Chlorophenyl-phenyl Ether		1.0	Not Detected
4-Nitroaniline		10	Not Detected
4,6-Dinitro-2-methylphenol		10	Not Detected

#### SAMPLE NAME: ACS-ME106-IN2-005A

ID#: 0207099B-03A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

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18th Superficient	(1)		Plant Decreptions
			and a first for the form of the contract of th
	<u> </u>	Rpt. Limit	Amount
Compound		(ug)	(ug)
N-Nitrosodiphenylamine		10	Not Detected
4-Bromophenyl-phenyl Ether		1.0	Not Detected
Hexachlorobenzene		1.0	Not Detected
Pentachlorophenol		20	Not Detected
Phenanthrene		1.0	Not Detected
Anthracene		1.0	Not Detected
di-n-Butylphthalate		5.0	0.87 J <i>「</i> ブ
Fluoranthene		1.0	Not Detected
Pyrene		1.0	Not Detected
Butylbenzylphthalate		5.0	Not Detected
3,3'-Dichlorobenzidine		20	Not Detected
Chrysene		1.0	Not Detected
Benzo(a)anthracene		1.0	Not Detected
bis(2-Ethylhexyl)phthalate		5.0	Not Detected
Di-n-Octylphthalate		5.0	Not Detected
Benzo(b)fluoranthene		1.0	Not Detected
Benzo(k)fluoranthene		1.0	Not Detected
Benzo(a)pyrene		1.0	Not Detected
Indeno(1,2,3-c,d)pyrene		1.0	Not Detected
Dibenz(a,h)anthracene		1.0	Not Detected
Benzo(g,h,i)perylene		1.0	Not Detected
1- 11 -			

J = Estimated value.

Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

•		Method Limits	
Surrogates	%Recovery		
2-Fluorophenol	44 Q	50-150	
Phenol-d5	70	50-150	
Nitrobenzene-d5	75	50-150	
2-Fluorobiphenyl	77	60-120	
2,4,6-Tribromophenol	59	50-150	
Terphenyl-d14	79	60-120	

### July 12, 2002 Off-Gas Sample (Round 6) Laboratory Results

#### SAMPLE NAME: ACS-ME106-EF1-006A

ID#: 0207281A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

gue taix Obras	<b>A0723</b> 5		Dankateallied Dankateallied	7 44 10 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	0.70	1.4	1.4	3.0
Vinyl Chloride	0.70	1.8	4.2	11
Bromomethane	0.70	2.7	Not Detected	Not Detected
Chloroethane	0.70	1.9	2.6	7.0
1,1-Dichloroethene	0.70	2.8	1.4	5.9
Methylene Chloride	0.70	2.4	19	67
1,1-Dichloroethane	0.70	2.8	1.5	6.2
cis-1,2-Dichloroethene	0.70	2.8	14	56
Chloroform	0.70	3.4	0.39J 1丁	2.0 J
1,1,1-Trichloroethane	0.70	3.8	0.88	4.9
Carbon Tetrachloride	0.70	4.4	Not Detected	Not Detected
Benzene	0.70	2.2	20	65
1,2-Dichloroethane	0.70	2.8	Not Detected	Not Detected
Trichloroethene	0.70	3.8	Not Detected	Not Detected
1,2-Dichloropropane	0.70	3.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
Toluene	0.70	2.7	11	42
trans-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
1,1,2-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Tetrachloroethene	0.70	4.8	Not Detected	Not Detected
Chlorobenzene	0.70	3.2	1.4	6.4
Ethyl Benzene	0.70	3.1	2.2	9.8
m,p-Xylene	0.70	3.1	8.4	37
p-Xylene	0.70	3.1	2.5	11
Styrene	0.70	3.0	0.68 J 15	2.9 J
1,1,2,2-Tetrachloroethane	0.70	4.8	Not Detected	Not Detected
Acetone	2.8	6.7	40	96
Carbon Disulfide	2.8	8.8	4.5	14
trans-1,2-Dichloroethene	2.8	11	1.0J 15	4.1 J
2-Butanone (Methyl Ethyl Ketone)	2.8	8.3	17	51
Bromodichloromethane	2.8	19	Not Detected	Not Detected
4-Methyl-2-pentanone	2.8	12	2.2 J	9.3 J
2-Hexanone	2.8	12	Not Detected	Not Detected
Dibromochloromethane	2.8	24	Not Detected	Not Detected
Bromoform	2.8	29	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	147 Q	70-130

24 8/29/02

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

#### SAMPLE NAME: ACS-ME106-EF1-006A

ID#: 0207281A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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Olegae	Pet.	Tell Through them	
Surrogates	%Recovery	Method Limits	
Toluene-d8	114	70-130	
4-Bromofluorobenzene	111	70-130	

#### SAMPLE NAME: ACS-ME106-IN1-006A

ID#: 0207281A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

en age	(Texa)		Tanga keding Pagaranga	CAR TOTAL TO
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1.7	3.6	1.9	4.0
Vinyl Chloride	1.7	4.5	63	160
Bromomethane	1.7	6.8	Not Detected	Not Detected
Chloroethane	1.7	4.6	44	120
1,1-Dichloroethene	1.7	7.0	1.1 J	4.3 J
Methylene Chloride	1.7	6.1	170	600
1,1-Dichloroethane	1.7	7.1	37	150
cis-1,2-Dichloroethene	1.7	7.0	220	890
Chloroform	1.7	8.6	3.1	15
1,1,1-Trichloroethane	1.7	9.6	28	160
Carbon Tetrachloride	1.7	11	Not Detected	Not Detected
Benzene	1.7	5.6	180	590
1,2-Dichloroethane	1.7	7.1	6.5	27
Trichloroethene	1.7	9.5	5.3	29
1,2-Dichloropropane	1.7	8.1	2.5	12
cis-1,3-Dichloropropene	1.7	8.0	Not Detected	Not Detected
Toluene	1.7	6.6	160	620
trans-1,3-Dichloropropene	1.7	8.0	Not Detected	Not Detected
1,1,2-Trichloroethane	1.7	9.6	1.2J J	6.8 J
Tetrachloroethene	1.7	12	1.4 J / T	9.8 J
Chlorobenzene	1.7	8.1	12	59
Ethyl Benzene	1.7	7.6	43	190
m,p-Xylene	1.7	7.6	140	630
o-Xylene	1.7	7.6	56	250
Styrene	1.7	7.5	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.7	12	1.6J 5	11 J
Acetone	6.9	17	520	1300
Carbon Disulfide	6.9	22	8.3	26
trans-1,2-Dichloroethene	6.9	28	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.9	21	210	640
Bromodichloromethane	6.9	47	Not Detected	Not Detected
4-Methyl-2-pentanone	6.9	29	150	620
2-Hexanone	6.9	29	Not Detected	Not Detected
Dibromochloromethane	6.9	60	Not Detected	Not Detected
Bromoform	6.9	73	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	125	70-130	
Toluene-d8	105	70-130	

#### SAMPLE NAME: ACS-ME106-IN1-006A

ID#: 0207281A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

Figure 1	<b>2</b> 30 '5.13' O.71	ofection 74702 Ofection 12002
		Method
Surrogates	%Recovery	Limits
4-Bromofluorobenzene	112	70-130

13/29/02

#### SAMPLE NAME: ACS-ME106-IN2-006A

ID#: 0207281A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

APADOMAN Distriction	MOREO 2.0		্টাত্ত বিধিকী। বি ইয়াত কৰিবলৈ হৈছে	HTML TICK
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1.3	2.7	2.3	4.8
Vinyl Chloride	1.3	3.4	23	59
Bromomethane	1.3	5.1	Not Detected	Not Detected
Chloroethane	1.3	3.5	16	44
1,1-Dichloroethene	1.3	5.2	Not Detected	Not Detected
Methylene Chloride	1.3	4.6	92	330
1,1-Dichloroethane	1.3	5.3	15	62
cis-1,2-Dichloroethene	1.3	5.2	100	410
Chloroform	1.3	6.4	1.5	7.2
1,1,1-Trichloroethane	1.3	7.2	8.8	48
Carbon Tetrachloride	1.3	8.3	Not Detected	Not Detected
Benzene	1.3	4.2	66	210
1,2-Dichloroethane	1.3	5.3	4.2	17
Trichloroethene	1.3	7.1	2.1	11
1,2-Dichloropropane	1.3	6.1	1.2 J	5.9 J
cis-1,3-Dichloropropene	1.3	6.0	Not Detected	Not Detected
Toluene	1.3	5.0	68	260
trans-1,3-Dichloropropene	1.3	6.0	Not Detected	Not Detected
1,1,2-Trichloroethane	1.3	7.2	0.97 J /5	5.4 J
Tetrachloroethene	1.3	9.0	Not Detected	Not Detected
Chlorobenzene	1.3	6.1	5.8	27
Ethyl Benzene	1.3	5.7	17	76
m,p-Xylene	1.3	5.7	61	270
o-Xylene	1.3	5.7	22	96
Styrene	1.3	5.6	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1.3	9.1	1.3	9.3
Acetone	5.2	12	440	1000
Carbon Disulfide	5.2	16	2.1 J 15	6.6 J
trans-1,2-Dichloroethene	5.2	21	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	16	94	280
Bromodichloromethane	5.2	35	Not Detected	Not Detected
4-Methyl-2-pentanone	5.2	22	98	410
2-Hexanone	5.2	22	Not Detected	Not Detected
Dibromochloromethane	5.2	45	Not Detected	Not Detected
Bromoform	5.2	55	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Container Type: C Ener Caninia Cambio		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	102	70-130



#### SAMPLE NAME: ACS-ME106-IN2-006A

ID#: 0207281A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

Malley Line. Malley action	Allerations and a second secon	तिक्र विद्यादिति । स्थापितः । भूगाविश्वासम्बद्धाः स्थापितः
Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	109	70-130

18/29/12

#### SAMPLE NAME: ACS-ME106-EF1-006A

#### ID#: 0207281B-01A

Alduma Carro Di Esper		raksolbaldnið (1966-19 Bokkhlogers (1954) Bokkilogers (1954)
بمشجط بالشكامم بمناظيم لنتاقع كويست فعالمك ليبيا تنايي ومعدر شيراع ومقهيمات	Rpt. Limit	Amount
Compound	(ug)	(ug)
Phenol	5.0	Not Detected
pis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
1-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
sophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
pis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
I-Chloroaniline	10	Not Detected
-lexachlorobutadiene	1.0	Not Detected
I-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
dexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
l-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.32 J
Fluorene	1.0	Not Detected
l-Chlorophenyl-phenyl Ether	1.0	Not Detected
l-Nitroaniline I,6-Dinitro-2-methylphenol	10 10	Not Detected Not Detected

#### SAMPLE NAME: ACS-ME106-EF1-006A

ID#: 0207281B-01A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

intralia Ou res		Califoricollande de 1772/19- Califoricollor de 1772/19- Califoricollor de 1772/19-
O annual conditions	Rpt. Limit	Amount
Compound	(ug)	(ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.54 J
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	3.0 J <i>[</i>
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
ndeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

**Container Type: XAD Tube: VOST** 

Summer of the second se	9/ Paravaru	Method	
Surrogates	%Recovery	Limits	
2-Fluorophenol	89	50-150	
Phenol-d5	97	50-150	
Nitrobenzene-d5	91	50-150	
2-Fluorobiphenyl	87	60-120	
2,4,6-Tribromophenol	91	50-150	
Terphenyl-d14	86	60-120	

#### SAMPLE NAME: ACS-ME106-IN1-006A

ID#: 0207281B-02A

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<b>第</b> 条系统		Dan Company 14110.
		esteristical designation of the second
<u>ى دى دىدى. يى دەرىيى ھىغىمىيە</u> كە ئايى <del>دىكىيىلىكىكىكىكىكىكىكىكىكىكىكىكىكىكىكىكىك</del>	Rpt. Limit	Amount
Compound	(ug)	(ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	2.0
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	0.63 J /
1,2-Dichlorobenzene	1.0	0.82 J <b>1</b> 7
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	0.36 J ガ
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	0.53 J / J
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
ito = amo = monty priority	· •	= 0.00.00

#### SAMPLE NAME: ACS-ME106-IN1-006A

ID#: 0207281B-02A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

ilentia. Di serge	0. (0.) (1.)	engelender weder in Stallen – Weder Lagenskar in Stadt
Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.61 J
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.33 J
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

**Container Type: XAD Tube: VOST** 

Surrogates	%Recovery	Method Limits	
Surroyates	/orecovery	Lillits	
2-Fluorophenol	82	50-150	
Phenol-d5	93	50-150	
Nitrobenzene-d5	95	50-150	
2-Fluorobiphenyl	88	60-120	
2,4,6-Tribromophenol	74	50-150	
Terphenyl-d14	88	60-120	

#### SAMPLE NAME: ACS-ME106-IN2-006A

ID#: 0207281B-03A

Floricines On a constant	<b>-70</b> 7(7/5)	Danski Colice Ioni 7/12/02 Dei 20/1/10/20 7/17/02 Dei 20/1/20 20/20/02
and the second of the second o	Rpt. Limit	Amount
Compound	(ug)	(ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	1.7
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

#### SAMPLE NAME: ACS-ME106-IN2-006A

ID#: 0207281B-03A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

eponemo Oliverno		OCCOLOS INTERIOR SERVICION
	Rpt. Limit	Amount
Compound	(ug)	(ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.41 J
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

**Container Type: XAD Tube: VOST** 

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	50-150
Phenol-d5	85	50-150
Nitrobenzene-d5	86	50-150
2-Fluorobiphenyl	84	60-120
2,4,6-Tribromophenol	70	50-150
Terphenyl-d14	85	60-120

# July 18, 2002 Off-Gas Sample (Round 7) Laboratory Results

#### SAMPLE NAME: ACS-ME106-EF1-007A

#### ID#: 0207450R1-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

200	mani		tigaria (k. 18. kttp://gigsrea (h. 1883), 19	
the second	1.784		Marin of Mary	a par
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	2.8	5.8	36	77
Vinyl Chloride	2.8	7.2	130	340
Bromomethane	2.8	11	Not Detected	Not Detected
Chloroethane	2.8	7.4	53	140
1,1-Dichloroethene	2.8	11	15	60
Methylene Chloride	2.8	9.8	170	600
1,1-Dichloroethane	2.8	11	39	160
cis-1,2-Dichloroethene	2.8	11	600	2400
Chloroform	2.8	14	1.1 J	5.7 J
1,1,1-Trichloroethane	2.8	15	7.4	41
Carbon Tetrachloride	2.8	18	Not Detected	Not Detected
Benzene	2.8	9.0	440	1400
1,2-Dichloroethane	2.8	11	6.2	26
Trichloroethene	2.8	15	4.8	26
1,2-Dichloropropane	2.8	13	4.4	21
cis-1,3-Dichloropropene	2.8	13	Not Detected	Not Detected
Toluene	2.8	11	250	950
trans-1,3-Dichloropropene	2.8	13	Not Detected	Not Detected
1,1,2-Trichloroethane	2.8	15	0.86 J /J	4.8 J
Tetrachloroethene	2.8	19	3.0	21
Chlorobenzene	2.8	13	33	150
Ethyl Benzene	2.8	12	47	210
m,p-Xylene	2.8	12	220	970
o-Xylene	2.8	12	82	360
Styrene	2.8	12	22	95
1,1,2,2-Tetrachloroethane	2.8	19	0.65 J <i>「</i> ブ	4.5 J
Acetone	11	27	52	120
Carbon Disulfide	11	35	2.8J 15	8.8 J
trans-1,2-Dichloroethene	11	45	68	270
2-Butanone (Methyl Ethyl Ketone)	11	33	8.8 J 15	26 J
Bromodichloromethane	11	76	Not Detected	Not Detected
4-Methyl-2-pentanone	11	46	9.5 J 15	40 J
2-Hexanone	11	46	Not Detected	Not Detected
Dibromochloromethane	11	96	Not Detected	Not Detected
Bromoform	11	120	Not Detected	Not Detected

J = Estimated value.

LH 8/29/02

#### SAMPLE NAME: ACS-ME106-EF1-007A

#### ID#: 0207450R1-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

THE MINE	41400-17		then of the mingraph of the pr	
*06 15.290()			Abanga neb Sahabagan da arah da a	
Surrogates		%Recovery_	Method Limits	
1,2-Dichloroethane-d4		99	70-130	
Toluene-d8		101	70-130	
4-Bromofluorobenzene		108	70-130	

4/2/02 8/29/02

#### SAMPLE NAME: ACS-ME106-IN1-007A

ID#: 0207450R1-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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the three			Plane Converge	er a syf
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	27	56	Not Detected	Not Detected
Vinyl Chloride	27	70	940	2400
Bromomethane	27	100	Not Detected	Not Detected
Chloroethane	27	72	600	1600
1,1-Dichloroethene	27	110	7.3J J	30 J
Methylene Chloride	27	95	1200	4200
1,1-Dichloroethane	27	110	470	1900
cis-1,2-Dichloroethene	27	110	6600	27000
Chloroform	27	130	7.4J K	37 J
1,1,1-Trichloroethane	27	150	110	590
Carbon Tetrachloride	27	170	Not Detected	Not Detected
Benzene	27	87	3400	11000
1,2-Dichloroethane	27	110	98	400
Trichloroethene	27	150	40	220
1,2-Dichloropropane	27	120	64	300
cis-1,3-Dichloropropene	27	120	Not Detected	Not Detected
Toluene	27	100	3000	12000
trans-1,3-Dichloropropene	27	120	Not Detected ,	Not Detected
1,1,2-Trichloroethane	27	150	7.6J 万	42 J
Tetrachloroethene	27	180	14J /J	99 J
Chlorobenzene	27	120	220	1000
Ethyl Benzene	27	120	780	3400
m,p-Xylene	27	120	4200	19000
o-Xylene	27	120	1500	6600
Styrene	27	120	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	27	190	Not Detected	Not Detected
Acetone	110	260	490	1200
Carbon Disulfide	110	340	Not Detected	Not Detected
trans-1,2-Dichloroethene	110	430	34 J /5	140 J
2-Butanone (Methyl Ethyl Ketone)	110	320	160	490
Bromodichloromethane	110	730	Not Detected	Not Detected
4-Methyl-2-pentanone	110	450	260	1100
2-Hexanone	110	450	Not Detected	Not Detected
Dibromochloromethane	110	930	Not Detected	Not Detected
Bromoform	110	1100	Not Detected	Not Detected

J = Estimated value.

H 8/29/02

### SAMPLE NAME: ACS-ME106-IN1-007A

#### ID#: 0207450R1-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

THE CHICAGO	$(\alpha)(\alpha)^{i_{1}}(\beta)$		thin in continuing therapy	
The Capper	A. I		There is expressed to the	
Surrogates		%Recovery	Method Limits	
1,2-Dichloroethane-d4		95	70-130	
Toluene-d8		94	70-130	
4-Bromofluorobenzene		92	70-130	

LH 8/29/02

#### SAMPLE NAME: ACS-ME106-IN2-007A

#### ID#: 0207450R1-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

	artusan Se i			skins of theilighness strains common transplaces the miss	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Chloromethane	27	56	Not Detected	Not Detected	
Vinyl Chloride	27	70	590	1500	
Bromomethane	27	100	Not Detected	Not Detected	
Chloroethane	27	72	380	1000	
1,1-Dichloroethene	27	110	Not Detected	Not Detected	
Methylene Chloride	27	95	1000	3600	
1,1-Dichloroethane	27	110	340	1400	
cis-1,2-Dichloroethene	27	110	5100	21000	
Chloroform	27	130	5.7 J J	28 J	
1,1,1-Trichloroethane	27	150	68	380	
Carbon Tetrachloride	27	170	Not Detected	Not Detected	
Benzene	27	87	2000	6400	
1,2-Dichloroethane	27	110	71	290	
Trichloroethene	27	150	24 J 15	130 J	
1,2-Dichloropropane	27	120	50	230	
cis-1,3-Dichloropropene	27	120	Not Detected	Not Detected	
Toluene	27	100	1900	7300	
trans-1,3-Dichloropropene	27	120	Not Detected	Not Detected	
1,1,2-Trichloroethane	27	150	6.8J JJ	38 J	
Tetrachloroethene	27	180	7.41 J	51 J	
Chlorobenzene	27	120	140	660	
Ethyl Benzene	27	120	500	2200	
m,p-Xylene	27	120	2800	12000	
o-Xylene	27	120	1100	4700	
Styrene	27	120	Not Detected	Not Detected	
1,1,2,2-Tetrachloroethane	27	190	Not Detected	Not Detected	
Acetone	110	260	520	1200	
Carbon Disulfide	110	340	Not Detected	Not Detected	
trans-1,2-Dichloroethene	110	430	20 J J	80 J	
2-Butanone (Methyl Ethyl Ketone)	110	320	160	480	
Bromodichloromethane	110	730	Not Detected	Not Detected	
4-Methyl-2-pentanone	110	450	270	1100	
2-Hexanone	110	450	Not Detected	Not Detected	
Dibromochloromethane	110	930	Not Detected	Not Detected	
Bromoform	110	1100	Not Detected	Not Detected	

J = Estimated value.

Container Type: 6 Liter Summa Canister

LH 3129102

### SAMPLE NAME: ACS-ME106-IN2-007A

#### ID#: 0207450R1-03A

### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

#In Capa	.1030 - 93		Segular California (1916) in Eiste	
Surrogates			amin of explanation (40.17)	
		%Recovery	Method Limits	
1,2-Dichloroethane-d4		99	70-130	
Toluene-d8		99	70-130	
4-Bromofluorobenzene		88	70-130	

LH 8/29/02

### SAMPLE NAME: ACS-ME106-EF1-007A

#### ID#: 0207416-01A

and teras	्रते हरमाः	Some of all the copy of a first of
(F) 1 - 40-1	111	Deck - Control Vol. 4 (1997) For
		$(a_1,a_2,\ldots,a_{n-1}) = a_1 (\lambda_1 a_2 + \ldots a_{n-1}) = b_1 (\lambda_1 a_2 + \ldots a_{n-1})$
· · · · · · · · · · · · · · · · · · ·	Rpt. Limit	Amount
Compound	(ug)	(ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
pis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
I,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
•	20	Not Detected
I-Nitrophenol	5.0	Not Detected
2,4-Dinitrotoluene	1.0	Not Detected
Dibenzofuran Disabulahthalata		,
Diethylphthalate	5.0	, -
Fluorene	1.0	Not Detected
I-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline 4,6-Dinitro-2-methylphenol	10 10	Not Detected  Not Detected

#### SAMPLE NAME: ACS-ME106-EF1-007A

ID#: 0207416-01A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

Sub- Server	(44) (52(1))		traction of the problems of the beauti	
Substitution of the substi	(10)		tion of madely in a section	
			trans to Represent the end of the	
Compound		Rpt. Limit (ug)	Amount (ug)	
N-Nitrosodiphenylamine		10	Not Detected	
4-Bromophenyl-phenyl Ether		1.0	Not Detected	
Hexachlorobenzene		1.0	Not Detected	
Pentachlorophenol		20	Not Detected	
Phenanthrene		1.0	Not Detected	
Anthracene		1.0	Not Detected	
di-n-Butylphthalate		5.0	0.42 J	1JB
Fluoranthene		1.0	Not Detected	ער
Pyrene		1.0	Not Detected	
Butylbenzylphthalate		5.0	1.6 J	1JB
3,3'-Dichlorobenzidine		20	Not Detected	
Chrysene		1.0	Not Detected	
Benzo(a)anthracene		1.0	Not Detected	
bis(2-Ethylhexyl)phthalate		5.0	7.5	
Di-n-Octylphthalate		5.0	Not Detected	
Benzo(b)fluoranthene		1.0	Not Detected	
Benzo(k)fluoranthene		1.0	Not Detected	
Benzo(a)pyrene		1.0	Not Detected	
Indeno(1,2,3-c,d)pyrene		1.0	Not Detected	
Dibenz(a,h)anthracene		1.0	Not Detected	
Benzo(g,h,i)perylene		1.0	Not Detected	

J = Estimated value.

Container Type: XAD Tube: VOST

		Method
Surrogates	%Recovery	Limits
2-Fluorophenol	72	50-150
Phenol-d5	85	50-150
Nitrobenzene-d5	78	50-150
2-Fluorobiphenyl	69	60-120
2,4,6-Tribromophenol	83	50-150
Terphenyl-d14	72	60-120

### SAMPLE NAME: ACS-ME106-IN1-007A

ID#: 0207416-02A

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	110		Decree Strong and Strong Strong
			gen er Speriopejrjer i Stravi
		Rpt. Limit	Amount
Compound		(ug)	(ug)
Phenol		5.0	Not Detected
bis(2-Chloroethyl) Ether		1.0	Not Detected
2-Chlorophenol		5.0	Not Detected
1,3-Dichlorobenzene		1.0	0.82 J 15
1,4-Dichlorobenzene		1.0	9.3
1,2-Dichlorobenzene		1.0	16
2-Methylphenol (o-Cresol)		5.0	Not Detected
N-Nitroso-di-n-propylamine		1.0	Not Detected
4-Methylphenol		5.0	Not Detected
Hexachloroethane		1.0	Not Detected
Nitrobenzene		1.0	Not Detected
Isophorone		1.0	Not Detected
2-Nitrophenol		5.0	Not Detected
2,4-Dimethylphenol		5.0	Not Detected
bis(2-Chloroethoxy) Methane		1.0	Not Detected
2,4-Dichlorophenol	······································	5.0	Not Detected
1,2,4-Trichlorobenzene		1.0	1.9
Naphthalene		1.0	3.4
4-Chloroaniline		10	Not Detected
Hexachlorobutadiene		1.0	Not Detected
4-Chloro-3-methylphenol		5.0	Not Detected
2-Methylnaphthalene		1.0	1.6
Hexachlorocyclopentadiene		20	Not Detected
2,4,6-Trichlorophenol		5.0	Not Detected
2,4,5-Trichlorophenol		5.0	Not Detected
2-Chloronaphthalene		1.0	Not Detected
2-Nitroaniline		10	Not Detected
Dimethylphthalate		5.0	Not Detected
Acenaphthylene		1.0	Not Detected
2,6-Dinitrotoluene		5.0	Not Detected
***************************************		10	Not Detected
3-Nitroaniline		1.0	Not Detected
Acenaphthene			
2,4-Dinitrophenol		20	Not Detected
4-Nitrophenol		20	Not Detected
2,4-Dinitrotoluene		5.0	Not Detected
Dibenzofuran		1.0	Not Detected
Diethylphthalate		5.0	0.36 J /JB
Fluorene		1.0	Not Detected
4-Chlorophenyl-phenyl Ether		1.0	Not Detected
4-Nitroaniline		10	Not Detected
4,6-Dinitro-2-methylphenol		10	Not Detected

#### SAMPLE NAME: ACS-ME106-IN1-007A

ID#: 0207416-02A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

$   \langle ij \rangle    \langle$		\$1500 - 45 (4) [(1) 60 (4) \$3 (4) [4] \$
40 4 4		The standard of Kish
		Theory of the papers to study
	Rpt. Limit	Amount
Compound	(ug)	(ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.60 J /J
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.88 J / JB
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
ois(2-Ethylhexyl)phthalate	5.0	3.4 J /3
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
ndeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
l = Estimated value.		
Container Type: XAD Tube: VOST		
		Method
Surrogates	%Recovery	Limits
2-Fluorophenol	61	50-150
Phenol-d5	80	50-150

76

72

81

72

KH 8/29/102

50-150

60-120

50-150

60-120

Nitrobenzene-d5

2-Fluorobiphenyl 2,4,6-Tribromophenol

Terphenyl-d14

### SAMPLE NAME: ACS-ME106-IN2-007A

ID#: 0207416-03A

### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

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Electrical Control	010		$\chi_{\mathcal{A}}(x) = \mathcal{A}(x) + $	
			The state of the second second second	
	· · · · · · · · · · · · · · · · · · ·	Rpt. Limit	Amount	
Compound		(ug)	(ug)	
Phenol		5.0	Not Detected	- W
bis(2-Chloroethyl) Ether		1.0	Not Detected	/WJ
2-Chlorophenol		5.0	Not Detected	
1,3-Dichlorobenzene		1.0	Not Detected	TU\
1,4-Dichlorobenzene		1.0	3.1	IJ
1,2-Dichlorobenzene		1.0	5.5	15
2-Methylphenol (o-Cresol)		5.0	Not Detected	145
N-Nitroso-di-n-propylamine		1.0	Not Detected	(UJ
4-Methylphenol		5.0	Not Detected	lut
Hexachloroethane		1.0	Not Detected	145
Nitrobenzene		1.0	Not Detected	Twi
Isophorone		1.0	Not Detected	ius
2-Nitrophenol		5.0	Not Detected	lus
2,4-Dimethylphenol		5.0	Not Detected	1UJ
bis(2-Chloroethoxy) Methane		1.0	Not Detected	lus
2,4-Dichlorophenol		5.0	Not Detected	/UJ
1,2,4-Trichlorobenzene		1.0	0.67 J	15
Naphthalene		1.0	1.1	15_
4-Chloroaniline		10	Not Detected	ius
Hexachlorobutadiene		1.0	Not Detected	IUI
4-Chloro-3-methylphenol		5.0	Not Detected	Cui "
2-Methylnaphthalene		1.0	0.54 J	\J_
Hexachlorocyclopentadiene		20	Not Detected	lus
2,4,6-Trichlorophenol		5.0	Not Detected	lus
2,4,5-Trichlorophenol		5.0	Not Detected	145
2-Chloronaphthalene		1.0	Not Detected	้ แป
2-Nitroaniline		10	Not Detected	1UJ
Dimethylphthalate		5.0	Not Detected	1US
Acenaphthylene		1.0	Not Detected	lus
2,6-Dinitrotoluene		5.0	Not Detected	1U5
3-Nitroaniline		10	Not Detected	"JUJ
Acenaphthene		1.0	Not Detected	lus
2,4-Dinitrophenol		20	Not Detected	INZ
4-Nitrophenol		20	Not Detected	ius
2,4-Dinitrotoluene		5.0	Not Detected	145
Dibenzofuran		1.0	Not Detected	" /UJ
Diethylphthalate		5.0	0.32 J	15B
Fluorene		1.0	Not Detected	/us
4-Chlorophenyl-phenyl Ether		1.0	Not Detected	-
4-Nitroaniline		10	Not Detected	/Ut /UT
4,6-Dinitro-2-methylphenol		10	Not Detected	
				/UT

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#### SAMPLE NAME: ACS-ME106-IN2-007A

ID#: 0207416-03A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

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			REALIST AND FRANCES STORES OF THE COMME	
		Rpt. Limit	Amount	
Compound		(ug)	(ug)	
N-Nitrosodiphenylamine		10	Not Detected	Tus
4-Bromophenyl-phenyl Ether		1.0	Not Detected	145
Hexachlorobenzene		1.0	Not Detected	ius
Pentachlorophenol		20	Not Detected	ius
Phenanthrene		1.0	Not Detected	_ lw
Anthracene		1.0	Not Detected	TWI "
di-n-Butylphthalate		5.0	Not Detected	145
Fluoranthene		1.0	Not Detected	IUI
Pyrene		1.0	Not Detected	IUS
Butylbenzylphthalate		5.0	0.96 J	_1JB
3,3'-Dichlorobenzidine		20	Not Detected	NJ
Chrysene		1.0	Not Detected	W
Benzo(a)anthracene		1.0	Not Detected	W II
bis(2-Ethylhexyl)phthalate		5.0	4.2 J	17
Di-n-Octylphthalate		5.0	Not Detected	145
Benzo(b)fluoranthene		1.0	Not Detected	"IW
Benzo(k)fluoranthene		1.0	Not Detected	1U5
Benzo(a)pyrene		1.0	Not Detected	1UT
Indeno(1,2,3-c,d)pyrene		1.0	Not Detected	/UT
Dibenz(a,h)anthracene		1.0	Not Detected	· IUJ
Benzo(g,h,i)perylene		1.0	Not Detected	" IUS

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube: VOST

		Method
Surrogates	%Recovery	Limits
2-Fluorophenol	35 Q	50-150
Phenol-d5	44 Q	50-150
Nitrobenzene-d5	40 Q	50-150
2-Fluorobiphenyl	38 Q	60-120
2,4,6-Tribromophenol	38 Q	50-150
Terphenyl-d14	39 Q	60-120

# July 25, 2002 Off-Gas Sample (Round 8) Laboratory Results

#### SAMPLE NAME: ACS-ME106-EF1-008A

ID#: 0207567A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	5.4	11	150	310
Vinyl Chloride	5.4	14	450	1200
Bromomethane	5.4	22	Not Detected	Not Detected
Chloroethane	5.4	15	220	590
1,1-Dichloroethene	5.4	22	38	150
Methylene Chloride	5.4	19	280	980
1,1-Dichloroethane	5.4	22	73	300
cis-1,2-Dichloroethene	5.4	22	1200	4900
Chloroform	5.4	27	1.6 J 🔼	7.8 J
1,1,1-Trichloroethane	5.4	30	20	110
Carbon Tetrachloride	5.4	35	Not Detected	Not Detected
Benzene	5.4	18	1300	4300
1,2-Dichloroethane	5.4	22	9.2	38
Frichloroethene	5.4	30	14	79
1,2-Dichloropropane	5.4	26	6.5	31
cis-1,3-Dichloropropene	5.4	25	Not Detected	Not Detected
Toluene	5.4	21	670	2600
rans-1,3-Dichloropropene	5.4	25	Not Detected	Not Detected
1,1,2-Trichloroethane	5.4	30	Not Detected	Not Detected
Tetrachloroethene	5.4	38	11	77
Chlorobenzene	5.4	26	66	310
Ethyl Benzene	5.4	24	130	560
n,p-Xylene	5.4	24	600	2700
o-Xylene	5.4	24	180	820
Styrene	5.4	24	38	160
1,1,2,2-Tetrachloroethane	5.4	38	Not Detected	Not Detected
Acetone	22	53	53	130
Carbon Disulfide	22	69	Not Detected	Not Detected
rans-1,2-Dichloroethene	22	88	120	500
2-Butanone (Methyl Ethyl Ketone)	22	65	21 J 👃	62 J
Bromodichloromethane	22	150	Not Detected	Not Detected
1-Methyl-2-pentanone	22	91	14 J	60 J
2-Hexanone	22	91	Not Detected	Not Detected
Dibromochloromethane	22	190	Not Detected	Not Detected
Bromoform	22	230	Not Detected	Not Detected

J = Estimated value.

8/29/2

#### SAMPLE NAME: ACS-ME106-EF1-008A

ID#: 0207567A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

H8/29/02

#### SAMPLE NAME: ACS-ME106-IN1-008A

ID#: 0207567A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	33	69	Not Detected	Not Detected
Vinyl Chloride	33	86	3600	9500
Bromomethane	33	130	Not Detected	Not Detected
Chloroethane	33	88	1600	4400
1,1-Dichloroethene	33	130	19 J / 🗸	77 J
Methylene Chloride	33	120	1100	4000
1,1-Dichloroethane	33	140	550	2200
cis-1,2-Dichloroethene	33	130	6800	28000
Chloroform	33	160	10J /J	50 J
1,1,1-Trichloroethane	33	180	220	1200
Carbon Tetrachloride	33	210	Not Detected	Not Detected
Benzene	33	110	6200	20000
1,2-Dichloroethane	33	140	49	200
Trichloroethene	33	180	60	330
1,2-Dichloropropane	33	160	52	240
cis-1,3-Dichloropropene	33	150	Not Detected	Not Detected
Toluene	33	130	4700	18000
trans-1,3-Dichloropropene	33	150	Not Detected	Not Detected
1,1,2-Trichloroethane	33	180	Not Detected	Not Detected
Tetrachloroethene	33	230	23 J /J	160 J
Chlorobenzene	33	150	250	1200
Ethyl Benzene	33	140	1100	5100
m,p-Xylene	33	140	5400	24000
o-Xylene	33	140	1700	7500
Styrene	33	140	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	33	230	Not Detected	Not Detected
Acetone	130	320	210	500
Carbon Disulfide	130	420	Not Detected	Not Detected
trans-1,2-Dichloroethene	130	530	52 J 🗘	210 J
2-Butanone (Methyl Ethyl Ketone)	130	400	110J /	340 J
Bromodichloromethane	130	900	Not Detected	Not Detected
4-Methyl-2-pentanone	130	550	160	680
2-Hexanone	130	550	Not Detected	Not Detected
Dibromochloromethane	130	1100	Not Detected	Not Detected
Bromoform	130	1400	Not Detected	Not Detected

J = Estimated value.

8/29/02

#### SAMPLE NAME: ACS-ME106-IN1-008A

ID#: 0207567A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

DOM I BARANTAN. 2008 - 1908 - Santa Salaman, archimina martin la proposition de la compania de la compania de la compania de l		The state of the s
Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	91	70-130

UN 8/29/02

#### SAMPLE NAME: ACS-ME106-IN2-008A

ID#: 0207567A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

FORESCENE	OCON)		encoraniu	and the second second
Compound	Røt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	33	69	Not Detected	Not Detected
Vinyl Chloride	33	86	5300	14000
Bromomethane	33	130	Not Detected	Not Detected
Chloroethane	33	88	2300	6200
1,1-Dichloroethene	33	130	27 J 🖊	110 J
Methylene Chloride	33	120	1600	5800
1,1-Dichloroethane	33	140	820	3400
cis-1,2-Dichloroethene	33	130	9900	40000
Chloroform	33	160	14 J /J	70 J
1,1,1-Trichloroethane	33	180	330	1800
Carbon Tetrachloride	33	210	Not Detected	Not Detected
Benzene	33	110	9100	30000
1,2-Dichloroethane	33	140	56	230
Frichloroethene	33	180	90	490
1,2-Dichloropropane	33	160	81	380
cis-1,3-Dichloropropene	33	150	Not Detected	Not Detected
roluene	33	130	6700	26000
rans-1,3-Dichloropropene	33	150	Not Detected	Not Detected
1,1,2-Trichloroethane	33	180	9.41 13	52 J
Fetrachloroethene	33	230	34	230
Chlorobenzene	33	150	380	1800
Ethyl Benzene	33	140	1700	7300
n,p-Xylene	33	140	7900	35000
o-Xylene	33	140	2500	11000
Styrene	33	140	Not Detected	Not Detected
I,1,2,2-Tetrachloroethane	33	230	Not Detected	Not Detected
Acetone	130	320	330	790
Carbon Disulfide	130	420	Not Detected	Not Detected
rans-1,2-Dichloroethene	130	530	71 J	280 J
2-Butanone (Methyl Ethyl Ketone)	130	400	170	520
Bromodichloromethane	130	900	Not Detected	Not Detected
I-Methyl-2-pentanone	130	550	260	1100
2-Hexanone	130	550	Not Detected	Not Detected
Dibromochloromethane	130	1100	Not Detected	Not Detected
Bromoform	130	1400	Not Detected	Not Detected

J = Estimated value.

H 8/29/02

#### SAMPLE NAME: ACS-ME106-IN2-008A

ID#: 0207567A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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<b>े</b>	600	descriptions are	
Surrogates	%Recovery	Method Limits	
1,2-Dichloroethane-d4	91	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	94	70-130	

CH 8/29/02

#### SAMPLE NAME: ACS-ME106-EF1-008A

ID#: 0207567B-01A

EDERGO STATE OF THE STATE OF TH		Date of Collection 47/25/02
Description of the second second		Danal Charles High
		Paraisain Wale
and the second section of the second section is a second section of the second section of the second section is a second section of the section is a section of the section of the section is a section of the sec	Rpt. Limit	Amount
Compound	(ug)	(ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	0.62 J
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
	1.0	Not Detected
Acenaphthene	20	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	5.0	
2,4-Dinitrotoluene		Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.43 J / Tt
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

#### SAMPLE NAME: ACS-ME106-EF1-008A

ID#: 0207567B-01A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

Ethionic Commence Com		্টিট্টেউট্টেড্রিট্রেলিস্টেড্রিট্টেট্টেট্টেট্টেট্টেট্টেট্টেট্টেট্টেট্ট
		PROCESSOR ASSOC
man at the control of the second seco	Rpt. Limit	Amount
Compound	(ug)	(ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.30 J / JB
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	50-150
Phenol-d5	78	50-150
Nitrobenzene-d5	73	50-150
2-Fluorobiphenyl	68	60-120
2,4,6-Tribromophenol	72	50-150
Terphenyl-d14	70	60-120

#### SAMPLE NAME: ACS-ME106-IN1-008A

#### ID#: 0207567B-02A

III PORTE		Date of Recipies of the Period
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Compound	(ug)	(ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	1.1
1,4-Dichlorobenzene	1.0	12
1,2-Dichlorobenzene	1.0	20
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
pis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.2
Naphthalene	1.0	1.9
1-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
1-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	1.1
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.38 J
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
1,6-Dinitro-2-methylphenol	10	Not Detected

#### SAMPLE NAME: ACS-ME106-IN1-008A

ID#: 0207567B-02A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

ATTENTO Ou hour	<u> </u>	nd <mark>eolo</mark> žiom <i>držani</i> deladoj se 7800 odžiograda 14200
Same and	Rpt. Limit	Amount
Compound	(ug)	(ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.66 J 万B
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.43 J /JB
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	43 Q	50-150
Phenol-d5	64	50-150
Nitrobenzene-d5	66	50-150
2-Fluorobiphenyl	63	60-120
2,4,6-Tribromophenol	55	50-150
Terphenyl-d14	64	60-120

#### SAMPLE NAME: ACS-ME106-IN2-008A

ID#: 0207567B-03A

Althority Corcor		Paroleucean
and the second s	Rpt. Limit	A Samuel State Land Same Same State Land Same Same Same
Compound	Kpt. Limit (ug)	Amount (ug)
<u></u>	5.0	Not Detected
Phenol	1.0	Not Detected
bis(2-Chloroethyl) Ether	5.0	Not Detected  Not Detected
2-Chlorophenol	1.0	1.4
1,3-Dichlorobenzene	1.0	1.4
1,4-Dichlorobenzene		***************************************
1,2-Dichlorobenzene	1.0 5.0	25
2-Methylphenol (o-Cresol)		Not Detected Not Detected
N-Nitroso-di-n-propylamine	1.0 5.0	
4-Methylphenol		Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.7
Naphthalene	1.0	2.5
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	1.5
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.39 J / JB
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
the manual manual filterial and		

#### SAMPLE NAME: ACS-ME106-IN2-008A

ID#: 0207567B-03A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

Compound         Rpt. Limit (ug)         Amount (ug)           N-Nitrosodiphenylamine         10         Not Detected           4-Bromophenyl-phenyl Ether         1.0         Not Detected           Hexachlorobenzene         1.0         Not Detected           Pentachlorophenol         20         Not Detected           Phenanthrene         1.0         Not Detected           Anthracene         1.0         Not Detected           di-n-Butylphthalate         5.0         0.77 J         ✓S           Fluoranthene         1.0         Not Detected           Pyrene         1.0         Not Detected           Butylbenzylphthalate         5.0         0.45 J         ✓S           3,3'-Dichlorobenzidine         20         Not Detected           Chrysene         1.0         Not Detected           Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected <t< th=""><th></th><th>707<b>500</b>7</th><th></th><th>Date di<b>enterien 7</b>7250 Date dienteries 7460 Date dat production 72501</th><th></th></t<>		707 <b>500</b> 7		Date di <b>enterien 7</b> 7250 Date dienteries 7460 Date dat production 72501	
N-Nitrosodiphenylamine         10         Not Detected           4-Bromophenyl-phenyl Ether         1.0         Not Detected           Hexachlorobenzene         1.0         Not Detected           Pentachlorophenol         20         Not Detected           Phenanthrene         1.0         Not Detected           Anthracene         1.0         Not Detected           Anthracene         1.0         Not Detected           Gi-n-Butylphthalate         5.0         0.77 J           Fluoranthene         1.0         Not Detected           Pyrene         1.0         Not Detected           Butylbenzylphthalate         5.0         0.45 J           Butylbenzylphthalate         5.0         Not Detected           Chrysene         1.0         Not Detected           Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected           Indeno(1,2,3-c,d)pyrene         1.0 <th></th> <th></th> <th>•</th> <th></th> <th></th>			•		
4-Bromophenyl-phenyl Ether       1.0       Not Detected         Hexachlorobenzene       1.0       Not Detected         Pentachlorophenol       20       Not Detected         Phenanthrene       1.0       Not Detected         Anthracene       1.0       Not Detected         di-n-Butylphthalate       5.0       0.77 J         Fluoranthene       1.0       Not Detected         Pyrene       1.0       Not Detected         Butylbenzylphthalate       5.0       0.45 J         3,3'-Dichlorobenzidine       20       Not Detected         Chrysene       1.0       Not Detected         Benzo(a)anthracene       1.0       Not Detected         bis(2-Ethylhexyl)phthalate       5.0       Not Detected         Di-n-Octylphthalate       5.0       Not Detected         Benzo(b)fluoranthene       1.0       Not Detected         Benzo(k)fluoranthene       1.0       Not Detected         Benzo(k)fluoranthene       1.0       Not Detected         Benzo(a)pyrene       1.0       Not Detected         Indeno(1,2,3-c,d)pyrene       1.0       Not Detected         Indeno(1,2,3-c,d)pyrene       1.0       Not Detected	Compound		(ug)	(ug)	
Hexachlorobenzene   1.0	N-Nitrosodiphenyla	ımine	10	Not Detected	
Pentachlorophenol         20         Not Detected           Phenanthrene         1.0         Not Detected           Anthracene         1.0         Not Detected           di-n-Butylphthalate         5.0         0.77 J           Fluoranthene         1.0         Not Detected           Pyrene         1.0         Not Detected           Butylbenzylphthalate         5.0         0.45 J           3,3'-Dichlorobenzidine         20         Not Detected           Chrysene         1.0         Not Detected           Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(k)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected           Indeno(1,2,3-c,d)pyrene         1.0         Not Detected           Dibenz(a,h)anthracene         1.0         Not Detected	4-Bromophenyl-phe	enyl Ether	1.0	Not Detected	
Phenanthrene         1.0         Not Detected           Anthracene         1.0         Not Detected           di-n-Butylphthalate         5.0         0.77 J         ✓ ✗           Fluoranthene         1.0         Not Detected           Pyrene         1.0         Not Detected           Butylbenzylphthalate         5.0         0.45 J         ✓ ✗           Butylbenzylphthalate         20         Not Detected           Chrysene         1.0         Not Detected           Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(k)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected           Indeno(1,2,3-c,d)pyrene         1.0         Not Detected           Dibenz(a,h)anthracene         1.0         Not Detected	Hexachlorobenzene	e	1.0	Not Detected	
Anthracene         1.0         Not Detected           di-n-Butylphthalate         5.0         0.77 J         Image: Control of the contro	Pentachlorophenol		20	Not Detected	
di-n-Butylphthalate         5.0         0.77 J         \\B           Fluoranthene         1.0         Not Detected           Pyrene         1.0         Not Detected           Butylbenzylphthalate         5.0         0.45 J           3,3'-Dichlorobenzidine         20         Not Detected           Chrysene         1.0         Not Detected           Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(k)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected           Indeno(1,2,3-c,d)pyrene         1.0         Not Detected           Dibenz(a,h)anthracene         1.0         Not Detected	Phenanthrene		1.0	Not Detected	
Fluoranthene 1.0 Not Detected Pyrene 1.0 Not Detected Butylbenzylphthalate 5.0 0.45 J J S 3,3'-Dichlorobenzidine 20 Not Detected Chrysene 1.0 Not Detected Benzo(a)anthracene 1.0 Not Detected bis(2-Ethylhexyl)phthalate 5.0 Not Detected Di-n-Octylphthalate 5.0 Not Detected Di-n-Octylphthalate 5.0 Not Detected Benzo(b)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 No	Anthracene		1.0	Not Detected	
Pyrene 1.0 Not Detected 0.45 J 3/3'-Dichlorobenzidine 20 Not Detected Chrysene 1.0 Not Detected Benzo(a)anthracene 1.0 Not Detected bis(2-Ethylhexyl)phthalate 5.0 Not Detected Di-n-Octylphthalate 5.0 Not Detected Benzo(b)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Di-n-Octylphthalate 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Di-n-Octylphthalate 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Di-n-Octylphthalate 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Di-n-Octylphthalate 1.0 Not Detected Di-n-Octylphthalate 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Di-n-Octylphthalate 1	di-n-Butylphthalate		5.0	0.77 J	\B
Butylbenzylphthalate 5.0 0.45 J J S 3,3'-Dichlorobenzidine 20 Not Detected Chrysene 1.0 Not Detected Benzo(a)anthracene 1.0 Not Detected bis(2-Ethylhexyl)phthalate 5.0 Not Detected Di-n-Octylphthalate 5.0 Not Detected Benzo(b)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene Indeno(1,2,3	Fluoranthene		1.0	Not Detected	
3,3'-Dichlorobenzidine         20         Not Detected           Chrysene         1.0         Not Detected           Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(k)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected           Indeno(1,2,3-c,d)pyrene         1.0         Not Detected           Dibenz(a,h)anthracene         1.0         Not Detected	Pyrene		1.0	Not Detected	, ,
Chrysene 1.0 Not Detected Benzo(a)anthracene 1.0 Not Detected bis(2-Ethylhexyl)phthalate 5.0 Not Detected Di-n-Octylphthalate 5.0 Not Detected Benzo(b)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene Indeno(1,2,3-c,d)p	Butylbenzylphthalate	e	5.0	0.45 J	13B
Benzo(a)anthracene         1.0         Not Detected           bis(2-Ethylhexyl)phthalate         5.0         Not Detected           Di-n-Octylphthalate         5.0         Not Detected           Benzo(b)fluoranthene         1.0         Not Detected           Benzo(k)fluoranthene         1.0         Not Detected           Benzo(a)pyrene         1.0         Not Detected           Indeno(1,2,3-c,d)pyrene         1.0         Not Detected           Dibenz(a,h)anthracene         1.0         Not Detected	3,3'-Dichlorobenzid	ine	20	Not Detected	
bis(2-Ethylhexyl)phthalate 5.0 Not Detected Di-n-Octylphthalate 5.0 Not Detected Benzo(b)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Dibenz(a,h)anthracene 1.0 Not Detected Not Detected Not Detected Not Detected Dibenz(a,h)anthracene 1.0 Not Detected Not Detected	Chrysene		1.0	Not Detected	
Di-n-Octylphthalate5.0Not DetectedBenzo(b)fluoranthene1.0Not DetectedBenzo(k)fluoranthene1.0Not DetectedBenzo(a)pyrene1.0Not DetectedIndeno(1,2,3-c,d)pyrene1.0Not DetectedDibenz(a,h)anthracene1.0Not Detected	Benzo(a)anthracen	е	1.0	Not Detected	
Benzo(b)fluoranthene 1.0 Not Detected Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Dibenz(a,h)anthracene 1.0 Not Detected	bis(2-Ethylhexyl)pht	halate	5.0	Not Detected	
Benzo(k)fluoranthene 1.0 Not Detected Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Dibenz(a,h)anthracene 1.0 Not Detected	Di-n-Octylphthalate		5.0	Not Detected	
Benzo(a)pyrene 1.0 Not Detected Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Not Detected Dibenz(a,h)anthracene 1.0 Not Detected	Benzo(b)fluoranthe	ne	1.0	Not Detected	
Indeno(1,2,3-c,d)pyrene 1.0 Not Detected Dibenz(a,h)anthracene 1.0 Not Detected	Benzo(k)fluoranther	ne	1.0	Not Detected	
Dibenz(a,h)anthracene 1.0 Not Detected	Benzo(a)pyrene		1.0	Not Detected	
Dibenz(a,h)anthracene 1.0 Not Detected	Indeno(1,2,3-c,d)py	rene	1.0	Not Detected	
			1.0	Not Detected	
		***************************************	1.0	Not Detected	

J = Estimated value.

Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Sugarantas	P/ Decover	Method Limits
Surrogates	%Recovery	
2-Fluorophenol	41 Q	50-150
Phenol-d5	66	50-150
Nitrobenzene-d5	71	50-150
2-Fluorobiphenyl	68	60-120
2,4,6-Tribromophenol	59	50-150
Terphenyl-d14	72	60-120

# August 8, 2002 Off-Gas Sample (Round 9) Laboratory Results

#### SAMPLE NAME: ACS-ME106EF1 AUGA

ID#: 0208207B-01A

THE NEW YORK OF THE PARTY OF TH	Bulleton Dipe	edited were
进行工具	Dilloye	"Affiliate to
	ZHOLE .	Bang Bar
and the second of the second o	Rpt. Limit	Amount
Compound	(ug)	(ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	2.1
1,2-Dichlorobenzene	1.0	2.6
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	ن/ 0.39 J
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected /R
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.29 J
* :	1.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether 4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

#### SAMPLE NAME: ACS-ME106EF1 AUGA

ID#: 0208207B-01A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

THE HOLD STATE STATE STATES AND S		BAR HEM <b>LESIO</b> REN Vine en Ancillas e H ende de Daineilo e C	
Compound		Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine		10	Not Detected
4-Bromophenyl-phenyl Ether		1.0	Not Detected
Hexachlorobenzene		1.0	Not Detected
Pentachlorophenol		20	Not Detected
Phenanthrene		1.0	Not Detected
Anthracene		1.0	Not Detected
di-n-Butylphthalate		5.0	Not Detected
Fluoranthene		1.0	Not Detected
Pyrene		1.0	Not Detected
Butylbenzylphthalate		5.0	Not Detected
3,3'-Dichlorobenzidine		20	Not Detected
Chrysene		1.0	Not Detected
Benzo(a)anthracene		1.0	Not Detected
bis(2-Ethylhexyl)phthalate		5.0	Not Detected
Di-n-Octylphthalate		5.0	Not Detected
Benzo(b)fluoranthene		1.0	Not Detected
Benzo(k)fluoranthene		1.0	Not Detected
Benzo(a)pyrene		1.0	Not Detected
Indeno(1,2,3-c,d)pyrene		1.0	Not Detected
Dibenz(a,h)anthracene		1.0	Not Detected
Benzo(g,h,i)perylene		1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	50-150
Phenol-d5	77	50-150
Nitrobenzene-d5	72	50-150
2-Fluorobiphenyl	73	60-120
2,4,6-Tribromophenol	80	50-150
Terphenyl-d14	77	60-120

#### SAMPLE NAME: ACS-ME106IN1 AUGA

ID#: 0208207A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

Fig. 1.	60 to			egne kallistetti (j. 1861) Geografia Alestoja et i status	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Chloromethane	45	94	Not Detected	Not Detected	
Vinyl Chloride	45	120	5000	13000	
Bromomethane	45	180	Not Detected	Not Detected	
Chloroethane	45	120	2100	5700	
1,1-Dichloroethene	45	180	Not Detected	Not Detected	
Methylene Chloride	45	160	160	560	
1,1-Dichloroethane	45	180	680	2800	
cis-1,2-Dichloroethene	45	180	10000	42000	
Chloroform	45	220	Not Detected	Not Detected	
1,1,1-Trichloroethane	45	250	410	2200	
Carbon Tetrachloride	45	280	Not Detected	Not Detected	
Benzene	45	140	14000	47000	
1,2-Dichloroethane	45	180	84	340	
Trichloroethene	45	240	94	520	
1,2-Dichloropropane	45	210	63	300	
cis-1,3-Dichloropropene	45	200	Not Detected	Not Detected	
Toluene	45	170	8600	33000	
rans-1,3-Dichloropropene	45	200	Not Detected	Not Detected	
1,1,2-Trichloroethane	45	250	Not Detected	Not Detected	
Tetrachloroethene	45	310	Not Detected	Not Detected	
Chlorobenzene	45	210	760	3500	
Ethyl Benzene	45	200	2000	8600	
m,p-Xylene	45	200	7700	34000	
o-Xylene	45	200	2400	11000	
Styrene	45	190	Not Detected	Not Detected	
1,1,2,2-Tetrachloroethane	45	310	Not Detected	Not Detected	
Acetone	180	430	190	450	
Carbon Disulfide	180	560	Not Detected	Not Detected	
rans-1,2-Dichloroethene	180	720	Not Detected	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	180	540	Not Detected	Not Detected	
Bromodichloromethane	180	1200	Not Detected	Not Detected	
4-Methyl-2-pentanone	180	740	Not Detected	Not Detected	
2-Hexanone	180	740	Not Detected	Not Detected	
Dibromochloromethane	180	1500	Not Detected	Not Detected	
Bromoform	180	1900	Not Detected	Not Detected	

#### SAMPLE NAME: ACS-ME106IN1 AUGA

ID#: 0208207A-02A

TER TRANS	49.420	The company of the second	that difficult is the in	
			Springer Miller of Miller	
Surrogates		%Recovery	Method Limits	
1,2-Dichloroethane-d4		105	70-130	
Toluene-d8		105	70-130	
4-Bromofluorobenzene		107	70-130	

#### SAMPLE NAME: ACS-ME106IN2 AUGA

#### ID#: 0208207B-03A

मिति विकास	(A)		Vangarie Giorgianie and C
၏p နောင်း မ		Agricus (Chestro of Ch	
			Bulletin Congline December
	· · · · · · · · · · · · · · · · · · ·	Rpt. Limit	Amount
Compound		(ug)	(ug)
Phenol		5.0	Not Detected
bis(2-Chloroethyl) Ether		1.0	Not Detected
2-Chlorophenol		5.0	Not Detected
1,3-Dichlorobenzene		1.0	0.99 J <i>\</i>
1,4-Dichlorobenzene		1.0	11
1,2-Dichlorobenzene		1.0	16
2-Methylphenol (o-Cresol)		5.0	Not Detected
N-Nitroso-di-n-propylamine		1.0	Not Detected
4-Methylphenol		5.0	Not Detected
Hexachloroethane		1.0	Not Detected
Nitrobenzene		1.0	Not Detected
sophorone		1.0	Not Detected
2-Nitrophenol		5.0	Not Detected
2,4-Dimethylphenol		5.0	Not Detected
ois(2-Chloroethoxy) Methane		1.0	Not Detected
2,4-Dichlorophenol	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.0	Not Detected
1,2,4-Trichlorobenzene		1.0	1.4
Naphthalene		1.0	2.4
4-Chloroaniline		10	Not Detected
Hexachlorobutadiene		1.0	Not Detected
1-Chloro-3-methylphenol	***************************************	5.0	Not Detected
2-Methylnaphthalene		1.0	0.71 J
Hexachlorocyclopentadiene		20	Not Detected
2,4,6-Trichlorophenol		5.0	Not Detected
2,4,5-Trichlorophenol		5.0	Not Detected
2-Chloronaphthalene		1.0	Not Detected
2-Nitroaniline		10	Not Detected
Dimethylphthalate		5.0	Not Detected
Acenaphthylene		1.0	Not Detected
2,6-Dinitrotoluene		5.0	Not Detected
3-Nitroaniline		10	Not Detected
Acenaphthene		1.0	Not Detected
2,4-Dinitrophenol		20	Not Detected
I-Nitrophenol		20	Not Detected
2,4-Dinitrotoluene		5.0	Not Detected
Dibenzofuran		1.0	Not Detected
Diethylphthalate		5.0	Not Detected
Fluorene		1.0	Not Detected
I-Chlorophenyl-phenyl Ether		1.0	Not Detected
I-Nitroaniline		1.0	Not Detected
1,6-Dinitro-2-methylphenol		10	Not Detected



#### SAMPLE NAME: ACS-ME106IN2 AUGA

ID#: 0208207B-03A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

With the second	See East Section 1		
de to			But es peneral \$ 100 000
			To Asia in April person is the
		Rpt. Limit	Amount
Compound		(ug)	(ug)
N-Nitrosodiphenylamine		10	Not Detected
4-Bromophenyl-phenyl Ether		1.0	Not Detected
Hexachlorobenzene		1.0	Not Detected
Pentachlorophenol		20	Not Detected
Phenanthrene		1.0	Not Detected
Anthracene		1.0	Not Detected
di-n-Butylphthalate		5.0	Not Detected
- Fluoranthene		1.0	Not Detected
Pyrene		1.0	Not Detected
3utylbenzylphthalate		5.0	Not Detected
3,3'-Dichlorobenzidine		20	Not Detected
Chrysene		1.0	Not Detected
Benzo(a)anthracene		1.0	Not Detected
ois(2-Ethylhexyl)phthalate		5.0	Not Detected
Di-n-Octylphthalate		5.0	Not Detected
Benzo(b)fluoranthene		1.0	Not Detected
Benzo(k)fluoranthene		1.0	Not Detected
Benzo(a)pyrene		1.0	Not Detected
ndeno(1,2,3-c,d)pyrene		1.0	Not Detected
Dibenz(a,h)anthracene		1.0	Not Detected
Benzo(g,h,i)perylene		1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	41 Q	50-150
Phenol-d5	64	50-150
Nitrobenzene-d5	59	50-150
2-Fluorobiphenyl	66	60-120
2,4,6-Tribromophenol	56	50-150
Terphenyl-d14	72	60-120

#### SAMPLE NAME: ACS-ME106EF1 AUGA

ID#: 0208207A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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Mark the training the second		. i		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	6.7	14	130	280
Vinyl Chloride	6.7	17	610	1600
Bromomethane	6.7	26	Not Detected	Not Detected
Chloroethane	6.7	18	180	490
1,1-Dichloroethene	6.7	27	38	150
Methylene Chloride	6.7	24	100	360
1,1-Dichloroethane	6.7	28	57	240
cis-1,2-Dichloroethene	6.7	27	1100	4300
Chloroform	6.7	33	12	60
1,1,1-Trichloroethane	6.7	37	19 .	100
Carbon Tetrachloride	6.7	43	4.5 ]	29 J
Benzene	6.7	22	1900	6200
1,2-Dichloroethane	6.7	28	40	170
Trichloroethene	6.7	36	14	79
1,2-Dichloropropane	6.7	31	5.2 J / j	24 J
cis-1,3-Dichloropropene	6.7	31	Not Detected	Not Detected
Toluene	6.7	26	830	3200
trans-1,3-Dichloropropene	6.7	31	Not Detected	Not Detected
1,1,2-Trichloroethane	6.7	37	Not Detected	Not Detected
Tetrachloroethene	6.7	46	19	130
Chlorobenzene	6.7	31	140	640
Ethyl Benzene	6.7	30	150	660
m,p-Xylene	6.7	30	560	2500
o-Xylene	6.7	30	180	820
Styrene	6.7	29	28	120
1,1,2,2-Tetrachloroethane	6.7	47	Not Detected	Not Detected
Acetone	27	65	120	290
Carbon Disulfide	27	85	8.7 J	27 J
trans-1,2-Dichloroethene	27	110	100	410
2-Butanone (Methyl Ethyl Ketone)	27	80	9.4 J / j	28 J
Bromodichloromethane	27	180	Not Detected	Not Detected
4-Methyl-2-pentanone	27	110	5.5 J / j	23 J
2-Hexanone	27	110	Not Detected	Not Detected
Dibromochloromethane	27	230	Not Detected	Not Detected
Bromoform	27	280	Not Detected	Not Detected

J = Estimated value.

9/24/02

#### SAMPLE NAME: ACS-ME106EF1 AUGA

#### ID#: 0208207A-01A

diported (			tion of Ostphiller - 1915.	
Surrogates		%Recovery	Method Limits	
1,2-Dichloroethane-d4		100	70-130	
Toluene-d8		104	70-130	
4-Bromofluorobenzene		102	70-130	

#### SAMPLE NAME: ACS-ME106IN1 AUGA

ID#: 0208207B-02A

हार विद्यापाल । मिल्लाका	2011 A 1		But inthemplate Bash
			facilità ese di lescole de la companya de la companya de la companya de la companya de la companya de la compa
<u> </u>	4	Rpt. Limit	Amount
Compound		(ug)	(ug)
Phenol		5.0	Not Detected
bis(2-Chloroethyl) Ether		1.0	Not Detected
2-Chlorophenol		5.0	Not Detected
1,3-Dichlorobenzene		1.0	0.88 J 🖊
1,4-Dichlorobenzene		1.0	9.9
1,2-Dichlorobenzene		1.0	14
2-Methylphenol (o-Cresol)		5.0	Not Detected
N-Nitroso-di-n-propylamine		1.0	Not Detected
4-Methylphenol		5.0	Not Detected
Hexachloroethane		1.0	Not Detected
Nitrobenzene	***************************************	1.0	Not Detected
Isophorone		1.0	Not Detected
2-Nitrophenol		5.0	Not Detected
2,4-Dimethylphenol		5.0	Not Detected
bis(2-Chloroethoxy) Methane		1.0	Not Detected
2,4-Dichlorophenol		5.0	Not Detected
1,2,4-Trichlorobenzene		1.0	1.2
Naphthalene		1.0	1.9
4-Chloroaniline		10	Not Detected
Hexachlorobutadiene		1.0	Not Detected
4-Chloro-3-methylphenol		5.0	Not Detected
2-Methylnaphthalene		1.0	0.54 J 🔏
Hexachlorocyclopentadiene		20	Not Detected
2,4,6-Trichlorophenol		5.0	Not Detected
2,4,5-Trichlorophenol		5.0	Not Detected
2-Chloronaphthalene		1.0	Not Detected
2-Nitroaniline		10	Not Detected
Dimethylphthalate		5.0	Not Detected
Acenaphthylene		1.0	Not Detected
2,6-Dinitrotoluene		5.0	Not Detected
3-Nitroaniline		10	Not Detected
Acenaphthene		1.0	Not Detected /
2,4-Dinitrophenol		20	Not Detected
4-Nitrophenol		20	Not Detected
2,4-Dinitrotoluene		5.0	Not Detected
Dibenzofuran		1.0	Not Detected (
		5.0	0.21 J
Diethylphthalate Fluorene		1.0	Not Detected
			Not Detected
1-Chlorophenyl-phenyl Ether		1.0	
1-Nitroaniline 1,6-Dinitro-2-methylphenol		10 10	Not Detected Not Detected



#### SAMPLE NAME: ACS-ME106IN1 AUGA

ID#: 0208207B-02A

#### MODIFIED EPA METHOD TO-13 GC/MS FULL SCAN

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∰a Free			्रहेन संदेशिती होते । १८७०
			ं क्षेत्रकृतिकालका १०००
<u> </u>	<u></u>	Rpt. Limit	Amount
Compound		(ug)	(ug)
N-Nitrosodiphenylamine		10	Not Detected
4-Bromophenyl-phenyl Ether		1.0	Not Detected
Hexachlorobenzene		1.0	Not Detected
Pentachlorophenol		20	Not Detected
Phenanthrene		1.0	Not Detected
Anthracene		1.0	Not Detected
di-n-Butylphthalate		5.0	Not Detected
Fluoranthene		1.0	Not Detected
Pyrene		1.0	Not Detected
Butylbenzylphthalate		5.0	0.24 J / j
3,3'-Dichlorobenzidine		20	Not Detected
Chrysene		1.0	Not Detected
Benzo(a)anthracene		1.0	Not Detected
bis(2-Ethylhexyl)phthalate		5.0	Not Detected
Di-n-Octylphthalate		5.0	Not Detected
Benzo(b)fluoranthene		1.0	Not Detected
Benzo(k)fluoranthene		1.0	Not Detected
Benzo(a)pyrene		1.0	Not Detected
Indeno(1,2,3-c,d)pyrene		1.0	Not Detected
Dibenz(a,h)anthracene		1.0	Not Detected
Benzo(g,h,i)perylene		1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	53	50-150
Phenol-d5	71	50-150
Nitrobenzene-d5	74	50-150
2-Fluorobiphenyl	74	60-120
2,4,6-Tribromophenol	64	50-150
Terphenyl-d14	78	60-120

#### SAMPLE NAME: ACS-ME106IN2 AUGA

ID#: 0208207A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

Res No.	engaga pendilatan sebagai kenangan kenangan berakan berakan berakan berakan berakan berakan berakan berakan be 1980-tahun		Major de Galdrof est dans Ogne progression de Ard		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Chloromethane	54	110	Not Detected	Not Detected	
Vinyl Chloride	54	140	5600	14000	
Bromomethane	54	210	Not Detected	Not Detected	
Chloroethane	54	140	2400	6300	
1,1-Dichloroethene	54	220	Not Detected	Not Detected	
Methylene Chloride	54	190	180	650	
1,1-Dichloroethane	54	220	780	3200	
cis-1,2-Dichloroethene	54	220	12000	48000	
Chloroform	54	260	Not Detected	Not Detected	
1,1,1-Trichloroethane	54	300	460	2600	
Carbon Tetrachloride	54	340	Not Detected	Not Detected	
Benzene	54	170	17000	56000	
1,2-Dichloroethane	54	220	86	350	
Trichloroethene	54	290	120	660	
1,2-Dichloropropane	54	250	86	400	
cis-1,3-Dichloropropene	54	250	Not Detected	Not Detected	
Toluene	54	200	11000	42000	
trans-1,3-Dichloropropene	54	250	Not Detected	Not Detected	
1,1,2-Trichloroethane	54	300	Not Detected	Not Detected	
Tetrachloroethene	54	370	65	450	
Chlorobenzene	54	250	1000	4800	
Ethyl Benzene	54	240	2600	12000	
m,p-Xylene	54	240	11000	47000	
o-Xylene	54	240	3400	15000	
Styrene	54	230	Not Detected	Not Detected	
1,1,2,2-Tetrachloroethane	54	370	Not Detected	Not Detected	
Acetone	210	520	240	580	
Carbon Disulfide	210	680	Not Detected	Not Detected	
trans-1,2-Dichloroethene	210	860	Not Detected	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	210	640	Not Detected	Not Detected	
Bromodichloromethane	210	1400	Not Detected	Not Detected	
4-Methyl-2-pentanone	210	890	Not Detected	Not Detected	
2-Hexanone	210	890	Not Detected	Not Detected	
Dibromochloromethane	210	1800	Not Detected	Not Detected	
Bromoform	210	2200	Not Detected	Not Detected	

#### SAMPLE NAME: ACS-ME106IN2 AUGA

ID#: 0208207A-03A

Planes Starting	308×1		Principalition Williams
Surrogates		%Recovery	Method Limits
1,2-Dichloroethane-d4	<u> </u>	98	70-130
Toluene-d8		101	70-130
4-Bromofluorobenzene		105	70-130

## September 30, 2002 Off-Gas Sample (Round 10) Laboratory Results

#### SAMPLE NAME: ACS ME106 EF1 SEPA

ID#: 0210027A-01A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

450 Weaps,	(Figure 1)		Physica topics describbed	
\$16 m (4 pt)	Sec. 1.		Particle For Explosion	specific to the second
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	14	29	170	350
Vinyl Chloride	14	36	410	1100
Bromomethane	14	55	Not Detected	Not Detected
Chloroethane	14	37	220	590
1,1-Dichloroethene	14	56	49	200
Methylene Chloride	14	49	550	1900
1,1-Dichloroethane	14	57	69	280
cis-1,2-Dichloroethene	14	56	720	2900
Chloroform	14	69	4.4 J /	22 J
1,1,1-Trichloroethane	14	77	32	180
Carbon Tetrachloride	14	89	Not Detected	Not Detected
Benzene	14	45	4000	13000
1,2-Dichloroethane	14	57	Not Detected	Not Detected
Trichloroethene	14	76	27	150
1,2-Dichloropropane	14	65	2.8 J / \	13 J
cis-1,3-Dichloropropene	14	64	Not Detected	Not Detected
Toluene	14	53	940	3600
trans-1,3-Dichloropropene	14	64	Not Detected	Not Detected
1,1,2-Trichloroethane	14	77	Not Detected	Not Detected
Tetrachloroethene	14	96	49	340
Chlorobenzene	14	65	120	580
Ethyl Benzene	14	61	110	470
m,p-Xylene	14	61	470	2000
o-Xylene	14	61	110	490
Styrene	14	60	30	130
1,1,2,2-Tetrachloroethane	14	97	Not Detected	Not Detected
Acetone	56	130	160	390
Carbon Disulfide	56	180	Not Detected	Not Detected
trans-1,2-Dichloroethene	56	220	56	230
2-Butanone (Methyl Ethyl Ketone)	56	170	50 J /	150 J
Bromodichloromethane	56	380	Not Detected	Not Detected
4-Methyl-2-pentanone	56	230	19 <b>/ ]</b>	80 J
2-Hexanone	56	230	Not Detected	Not Detected
Dibromochloromethane	56	480	Not Detected	Not Detected
Bromoform	56	580	Not Detected	Not Detected

J = Estimated value.

		Method
Surrogates	%Recovery	Limits

#### SAMPLE NAME: ACS ME106 EF1 SEPA

#### ID#: 0210027A-01A

Hitting program	-6μ0 445 ×	Phylip of Girling and State of
AND STATES	A Section of the Control of the Cont	$(\mathfrak{M}_{0}(0)) \circ (\mathfrak{C}(0), \mathfrak{C}(0)) = (0) \circ (\mathfrak{U}_{0}(0))$
Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

#### SAMPLE NAME: ACS ME106 IN1 SEPA

ID#: 0210027A-02A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	140	280	Not Detected	Not Detected
Vinyl Chloride	140	350	2400	6400
Bromomethane	140	540	Not Detected	Not Detected
Chloroethane	140	360	2400	6500
1,1-Dichloroethene	140	550	Not Detected	Not Detected
Methylene Chloride	140	480	3200	11000
1,1-Dichloroethane	140	560	870	3600
cis-1,2-Dichloroethene	140	550	6600	26000
Chloroform	140	670	50 J <b>/ )</b>	250 J
1,1,1-Trichloroethane	140	750	600	3300
Carbon Tetrachloride	140	870	Not Detected	Not Detected
Benzene	140	440	30000	97000
1,2-Dichloroethane	140	560	Not Detected	Not Detected
Trichloroethene	140	740	190	1000
1,2-Dichloropropane	140	640	34 J / J	160 J
cis-1,3-Dichloropropene	140	630	Not Detected	Not Detected
Toluene	140	520	11000	42000
trans-1,3-Dichloropropene	140	630	Not Detected	Not Detected
1,1,2-Trichloroethane	140	750	Not Detected	Not Detected
Tetrachloroethene	140	940	140	960
Chlorobenzene	140	640	730	3400
Ethyl Benzene	140	600	1700	7300
m,p-Xylene	140	600	8000	35000
o-Xylene	140	600	1900	8400
Styrene	140	590	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	140	950	Not Detected	Not Detected
Acetone	540	1300	1000	2400
Carbon Disulfide	540	1700	Not Detected	Not Detected
trans-1,2-Dichloroethene	540	2200	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	540	1600	480 J <b>/J</b>	<b>14</b> 00 J
Bromodichloromethane	540	3700	Not Detected	Not Detected
4-Methyl-2-pentanone	540	2300	360 J <b>/</b> J	<b>15</b> 00 J
2-Hexanone	540	2300	Not Detected	Not Detected
Dibromochloromethane	540	4700	Not Detected	Not Detected
Bromoform	540	5700	Not Detected	Not Detected

J = Estimated value.

#### SAMPLE NAME: ACS ME106 IN1 SEPA

#### ID#: 0210027A-02A

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itti Cardo	*3	<b>\\$</b> }:\(\(\(\)\):	olik prostifisca – nak kristiki	
Surrogates	%F	Recovery	Method Limits	
1,2-Dichloroethane-d4		117	70-130	
Toluene-d8		104	70-130	
4-Bromofluorobenzene		100	70-130	

#### SAMPLE NAME: ACS ME106 IN2 SEPA

ID#: 0210027A-03A

#### MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

effice year	6141416A-		Auge or refter	Aggree wetterste Migael	
1813+14 ategra	₹/4°,		ekriger or heighbligh	ot of the water	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Chloromethane	130	280	Not Detected	Not Detected	
Vinyl Chloride	130	340	2900	7500	
Bromomethane	130	520	Not Detected	Not Detected	
Chloroethane	130 .	350	2600	7000	
1,1-Dichloroethene	130	530	Not Detected	Not Detected	
Methylene Chloride	130	470	3300	12000	
1,1-Dichloroethane	130	540	930	3800	
cis-1,2-Dichloroethene	130	530	7200	29000	
Chloroform	130	660	48J <b>/</b>	240 J	
1,1,1-Trichloroethane	130	730	710	4000	
Carbon Tetrachloride	130	840	Not Detected	Not Detected	
Benzene	130	430	36000	120000	
1,2-Dichloroethane	130	540	240	1000	
Trichloroethene	130	720	220	1200	
1,2-Dichloropropane	130	620	48 J /	230 J	
cis-1,3-Dichloropropene	130	610	Not Detected	Not Detected	
Toluene	130	500	13000	50000	
trans-1,3-Dichloropropene	130	610	Not Detected	Not Detected	
1,1,2-Trichloroethane	130	730	Not Detected	Not Detected	
Tetrachloroethene	130	910	180	1200	
Chlorobenzene	130	620	850	4000	
Ethyl Benzene	130	580	2000	8900	
m,p-Xylene	130	580	9500	42000	
o-Xylene	130	580	2300	10000	
Styrene	130	570	Not Detected	Not Detected	
1,1,2,2-Tetrachloroethane	130	920	Not Detected	Not Detected	
Acetone	530	1300	1100	2600	
Carbon Disulfide	530	1700	Not Detected	Not Detected	
trans-1,2-Dichloroethene	530	2100	Not Detected	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	530	1600	480 J /	1400 J	
Bromodichloromethane	530	3600	Not Detected	Not Detected	
4-Methyl-2-pentanone	530	2200	370 J	1500 J	
2-Hexanone	530	2200	Not Detected	Not Detected	
Dibromochloromethane	530	4600	Not Detected	Not Detected	
Bromoform	530	5500	Not Detected	Not Detected	

J = Estimated value.



#### SAMPLE NAME: ACS ME106 IN2 SEPA

ID#: 0210027A-03A

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Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

# APPENDIX C HEAT EXCHANGER AS-BUILT DRAWING

